# TOWN OF ARLINGTON

# ARLINGTON RESERVOIR - PHASE 2

ARLINGTON, MASSACHUSETTS

# 100% CONSTRUCTION DOCUMENT SET

### DRAWING LIST

C COVER SHEET LO KEY PLAN

L1.1 - L1.5 SITE PREPARATION AND DEMO PLANS L2.1 - L2.5 LAYOUT AND MATERIAL PLANS

L3.1 - L3.5 GRADING PLANS
L4.1 - L4.6 PLANTING PLANS
LD1.1 - LD1.11 LANDSCAPE DETAILS
C1.0 CIVIL DRAINAGE PLAN

C2.0 CIVIL DETAIL SHEETS
1.0 PROPOSED BANK RESTORATION AREAS

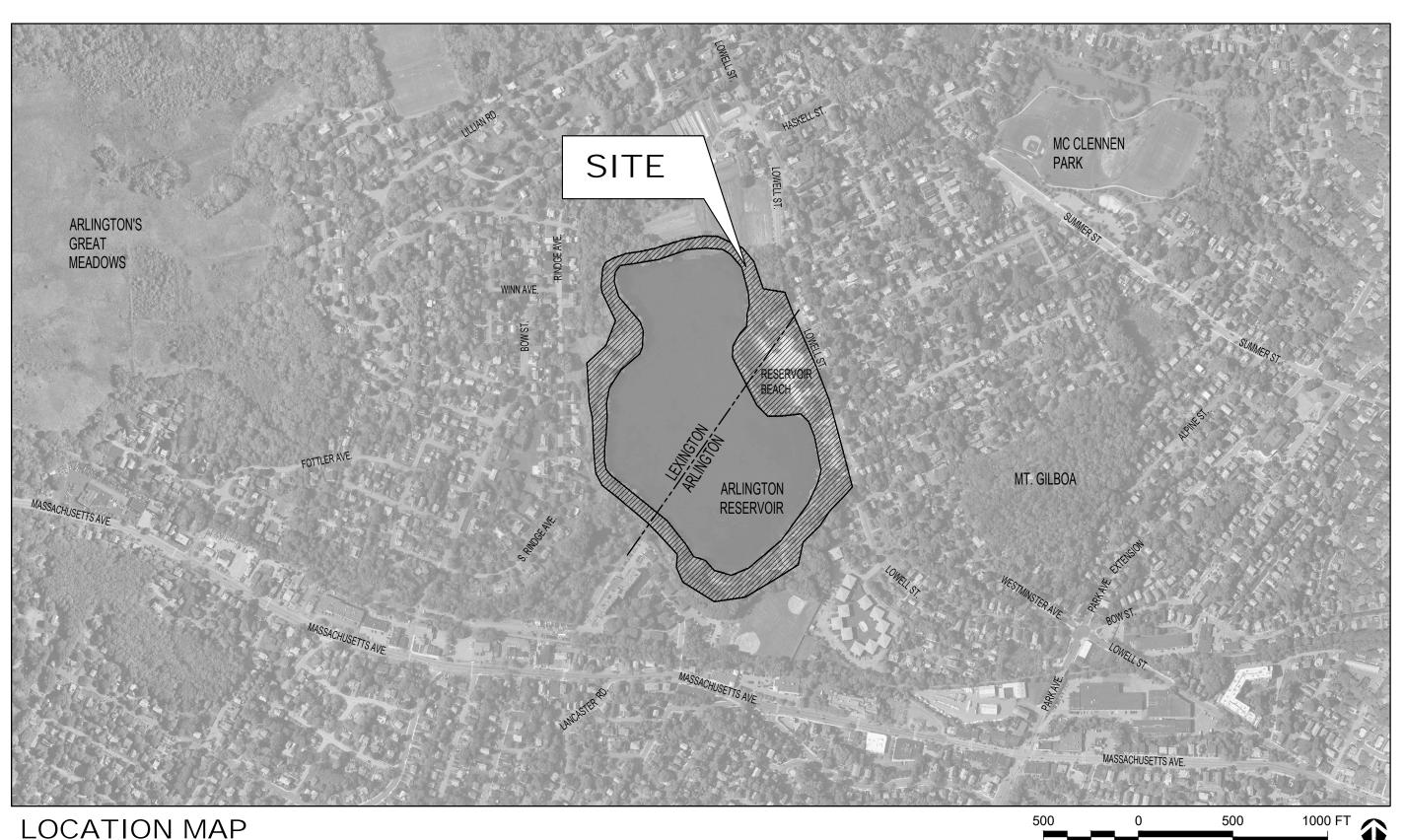
2.0 PROPOSED AREAS OF PHASE1 BANK RESTORATION

3.0 BANK RESTORATION SECTIONS 4.0 BANK RESTORATION DETAILS

5.0 BANK RESTORATION DETAILS AND NOTES

E0.0 ELECTRICAL LEGEND & NOTES E1.1 ELECTRICAL POWER SITE PLAN

X-101 TIMBER OVERLOOK CONSTRUCTION DETAILS - ADD ALTERNATE #1



Lowell Street/Arlington Reservoir Arlington, MA

Allied Consulting Engineering Services, Inc.

# PREPARED BY:

### LANDSCAPE ARCHITECT:

Kyle Zick Landscape Architecture, Inc.

36 Bromfield Street, Suite 202

Boston, MA 02108 617-451-1018 Tel www. kylezick.com

### ARCHITECT:

Bargmann Hendrie + Archetype, Inc.

9 Channel Center Street #300, Boston, MA 02210

617-350-0450 Tel 617-350-0215 Fax

# ENVIRONMENTAL CONSULTING: SWCA Environmental Consultants

15 Research Drive, Amherst, MA 01002

413-575-9883 Tel

# CIVIL ENGINEER:

Woodard & Curran, Inc.

980 Washington Street #325, Dedham, MA 02026 800-446-5518 Tel

# www.alliedconsulting.net

978-443-7888 Tel

ELECTRICAL SUBCONSULTANT:

235 Littleton Road, Suite 5, Westford, MA 01886

# STRUCTURAL ENGINEER:

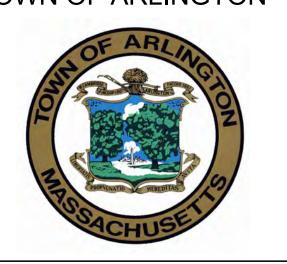
Childs Engineering Corporation

34 William Way, Bellingham, MA 02019 508-966-9092 Tel 508-966-9096 Fax

### ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



NO.	REVISION	DATE

kzla

Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 617 451-1
Boston, MA 02108 www.kyle.



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Job Number:

Project: ARLINGTON RES.

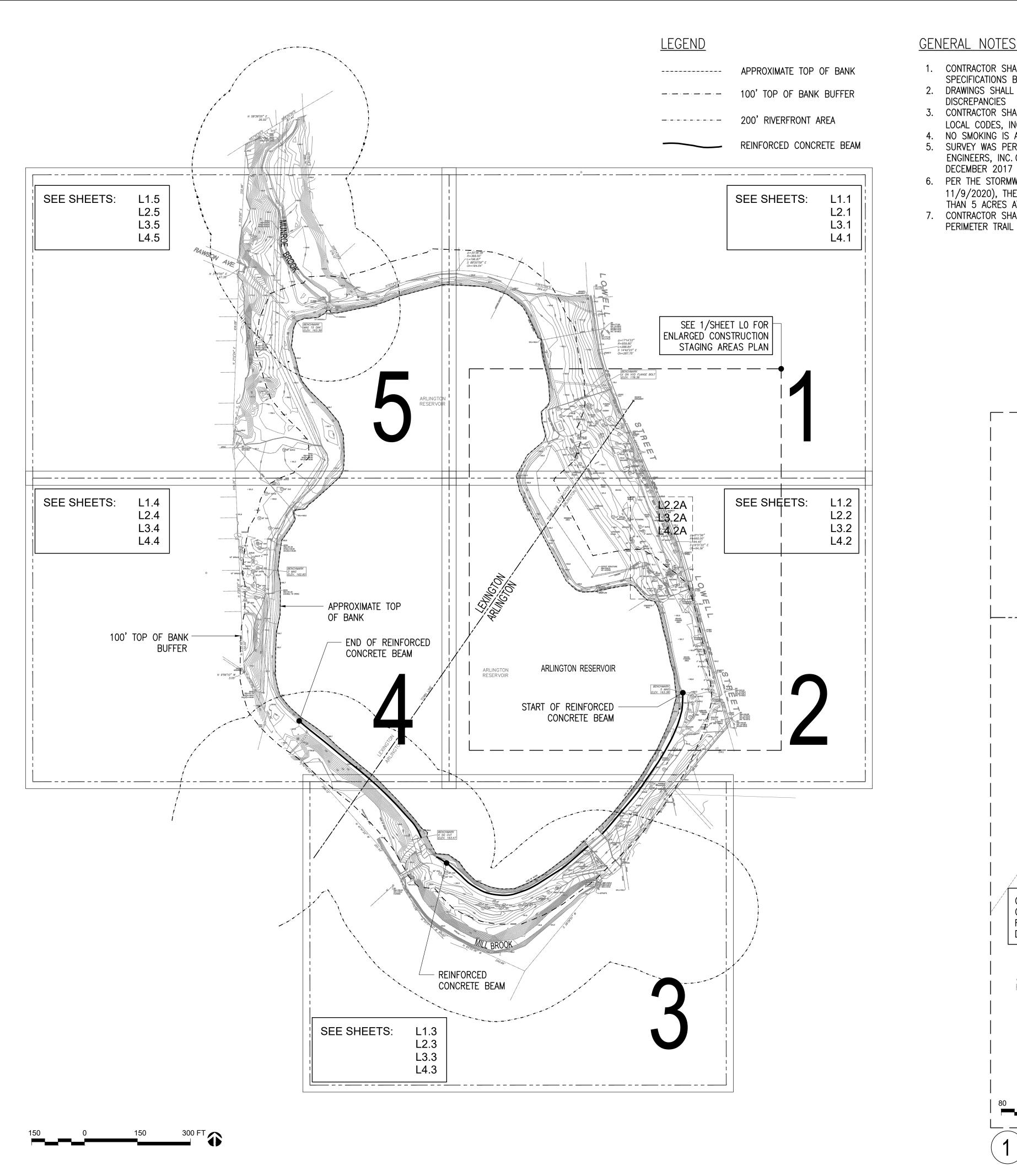
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Date: FEBRUARY 04, 2021

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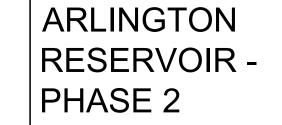
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### **GENERAL NOTES:**

- 1. CONTRACTOR SHALL BE FAMILIAR WITH DRAWINGS AND SPECIFICATIONS BEFORE BIDDING
- 2. DRAWINGS SHALL SUPERSEDE SPECIFICATIONS FOR ANY DISCREPANCIES
- 3. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, INCLUDING CMR521/ADA.
- 4. NO SMOKING IS ALLOWED WITHIN THE PARK AT ANY TIME 5. SURVEY WAS PERFORMED BY WESTON & SAMPSON ENGINEERS, INC. OF ALBANY, NY WAS UNDERTAKEN IN
- 6. PER THE STORMWATER POLLUTION PREVENTION PLAN (DATED 11/9/2020), THE CONTRACTOR CAN NOT DISTURB MORE THAN 5 ACRES AT ANY GIVEN TIME.
- 7. CONTRACTOR SHALL NOT DISTURB MORE THAN 25% OF PERIMETER TRAIL AT ANY GIVEN TIME.

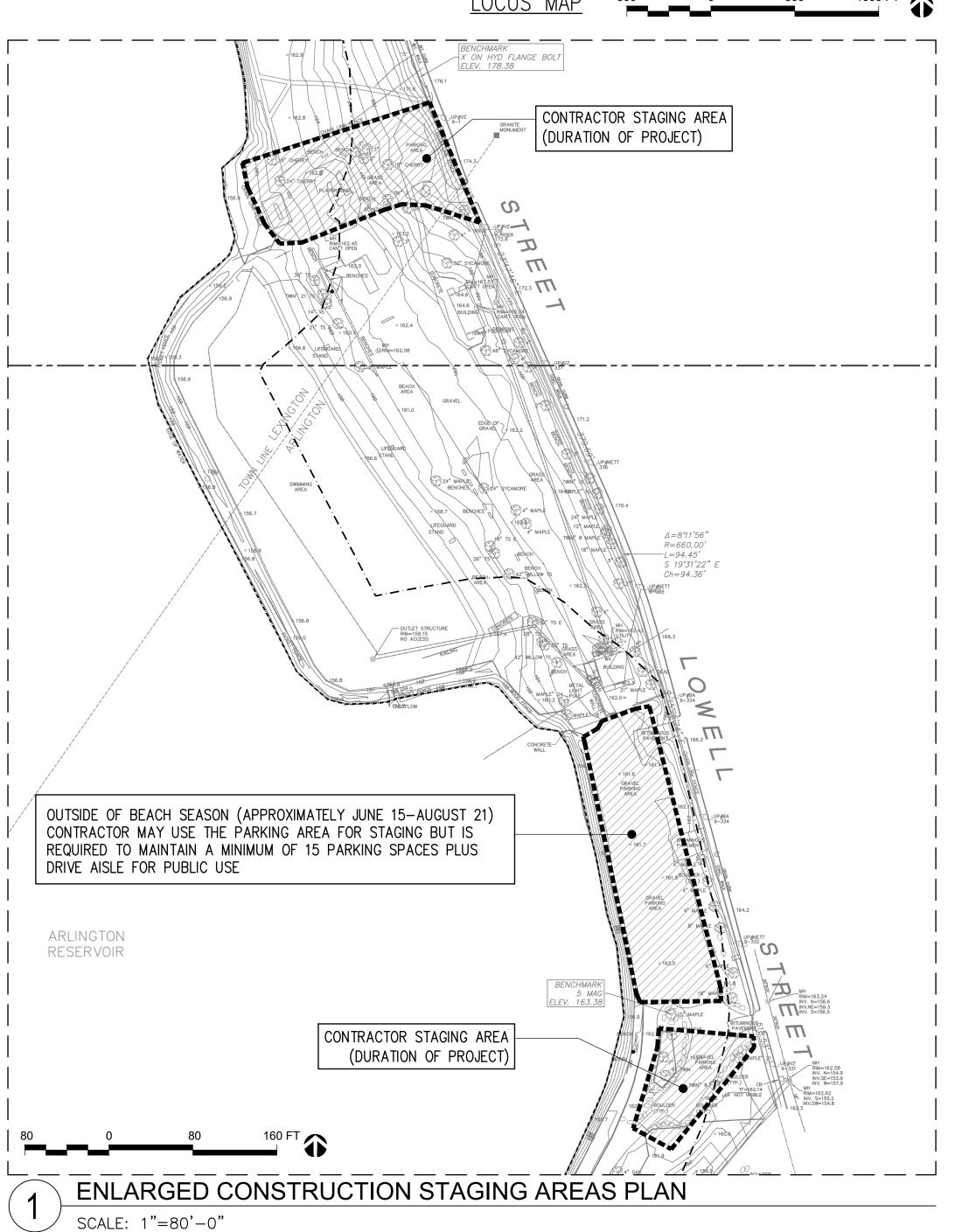




ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON





REVISION

Kyle Zick Landscape Architecture, Inc.

DATE

617 451-1018 Tel www.kylezick.com

NO.

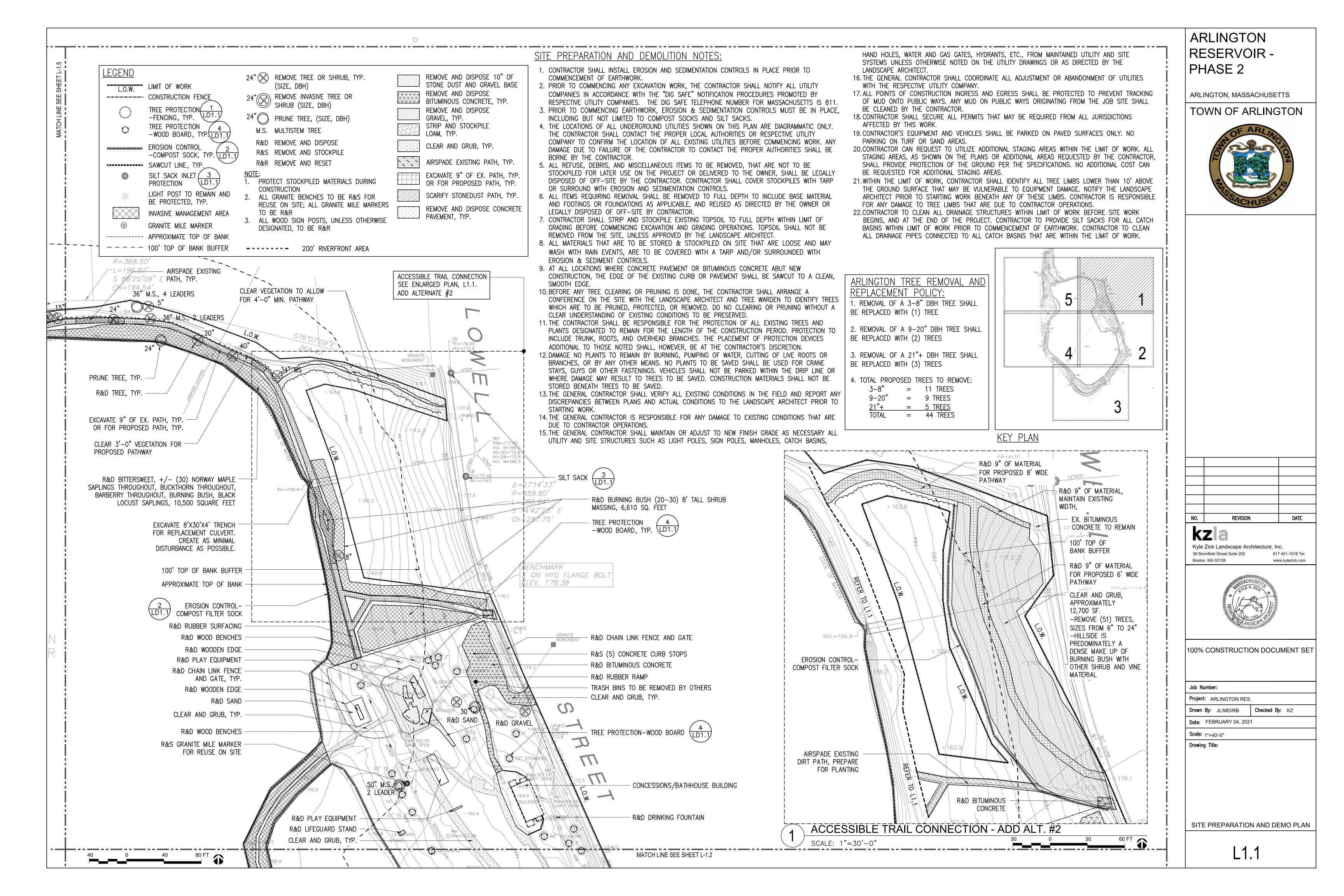
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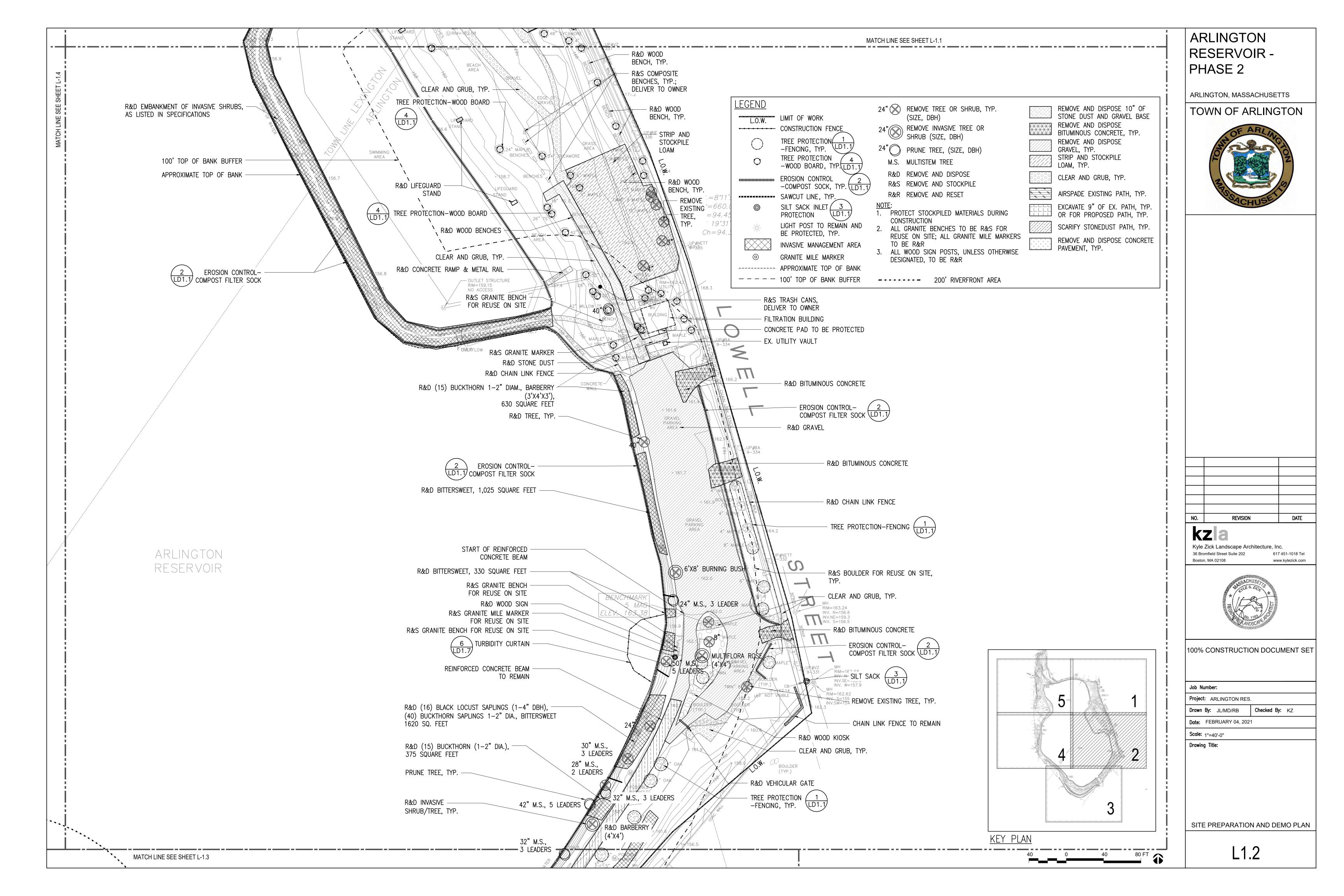
36 Bromfield Street Suite 202

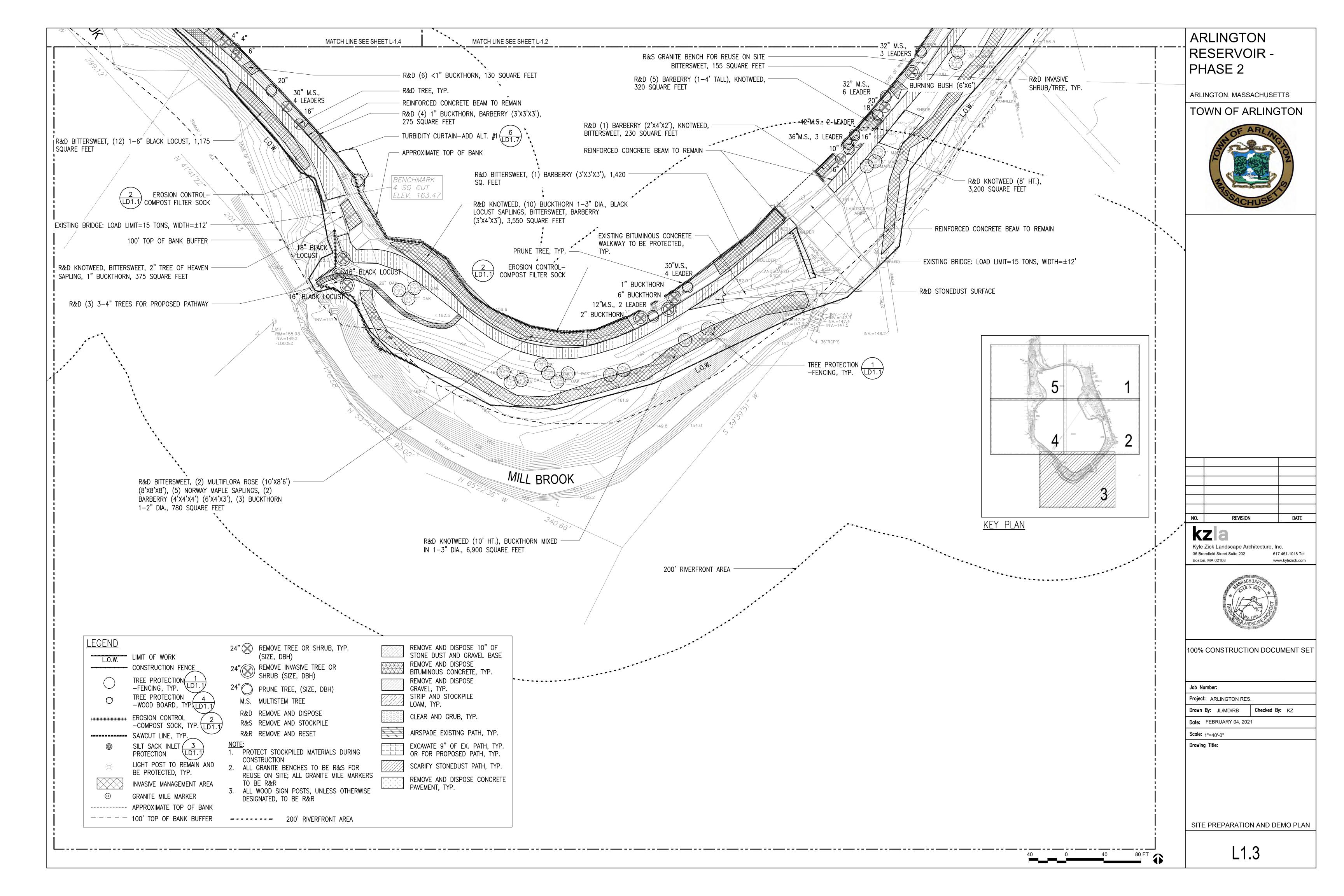
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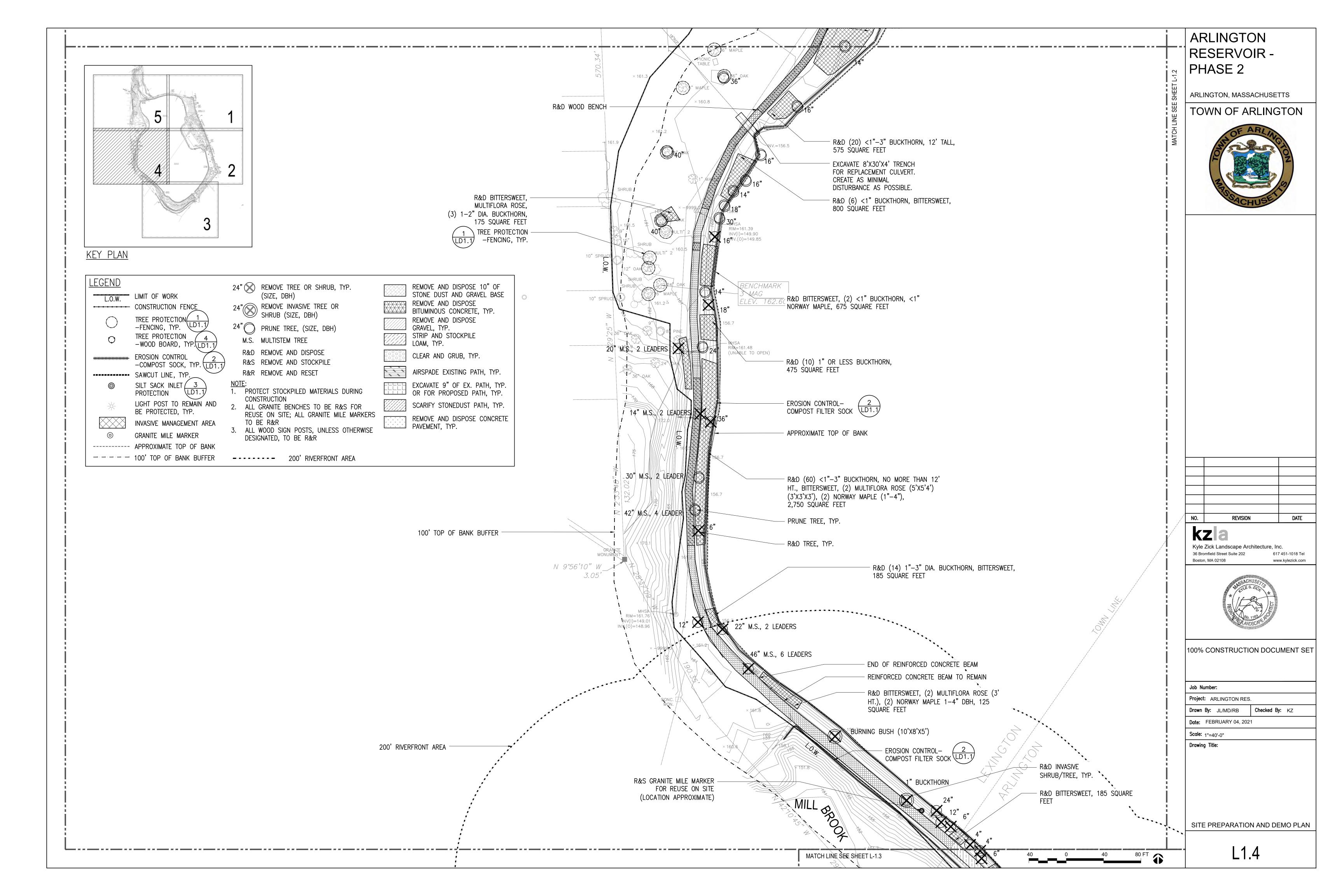
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Drawn By: JL/MD/RB	Checked By: K
Date: FEBRUARY 04, 20	21
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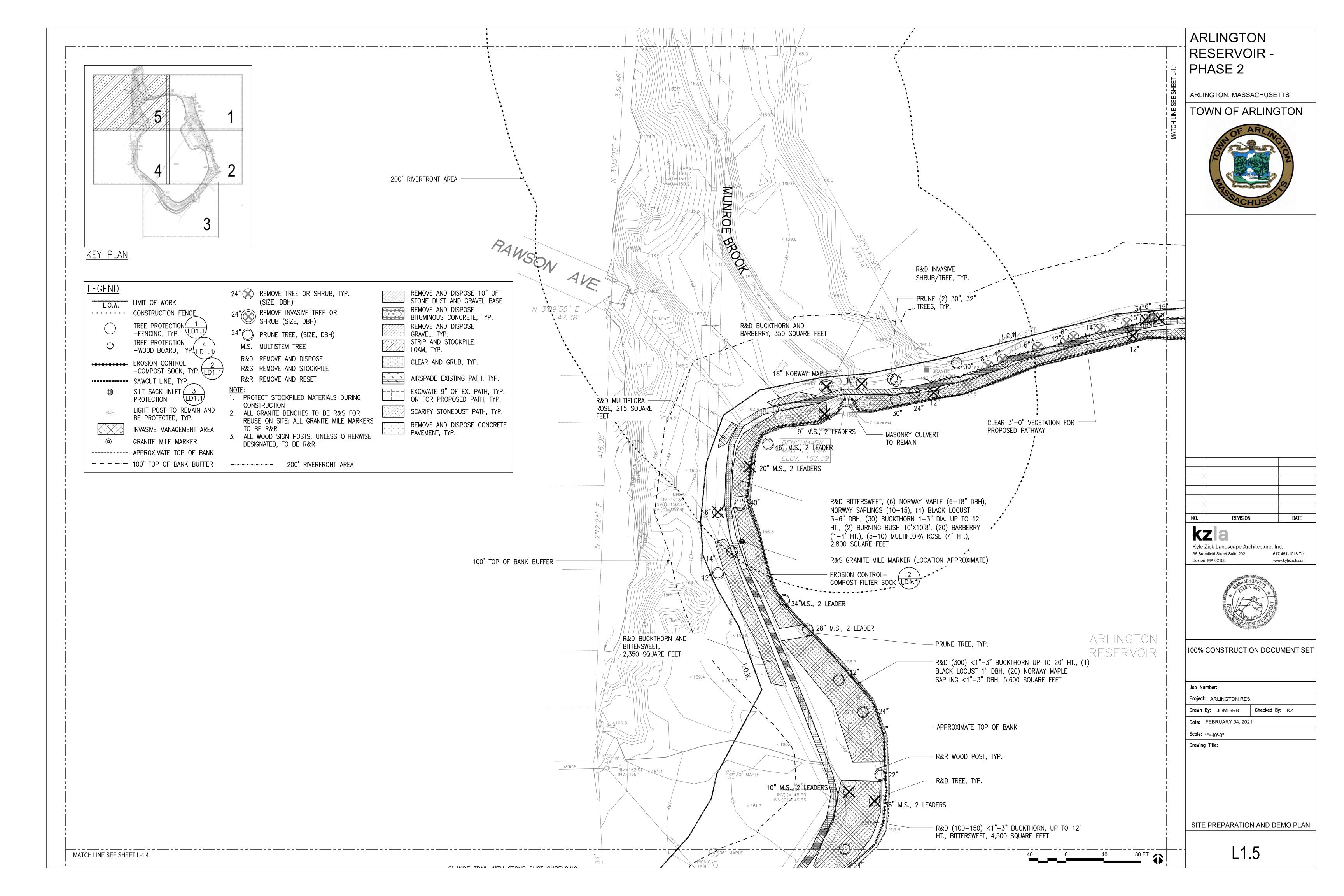
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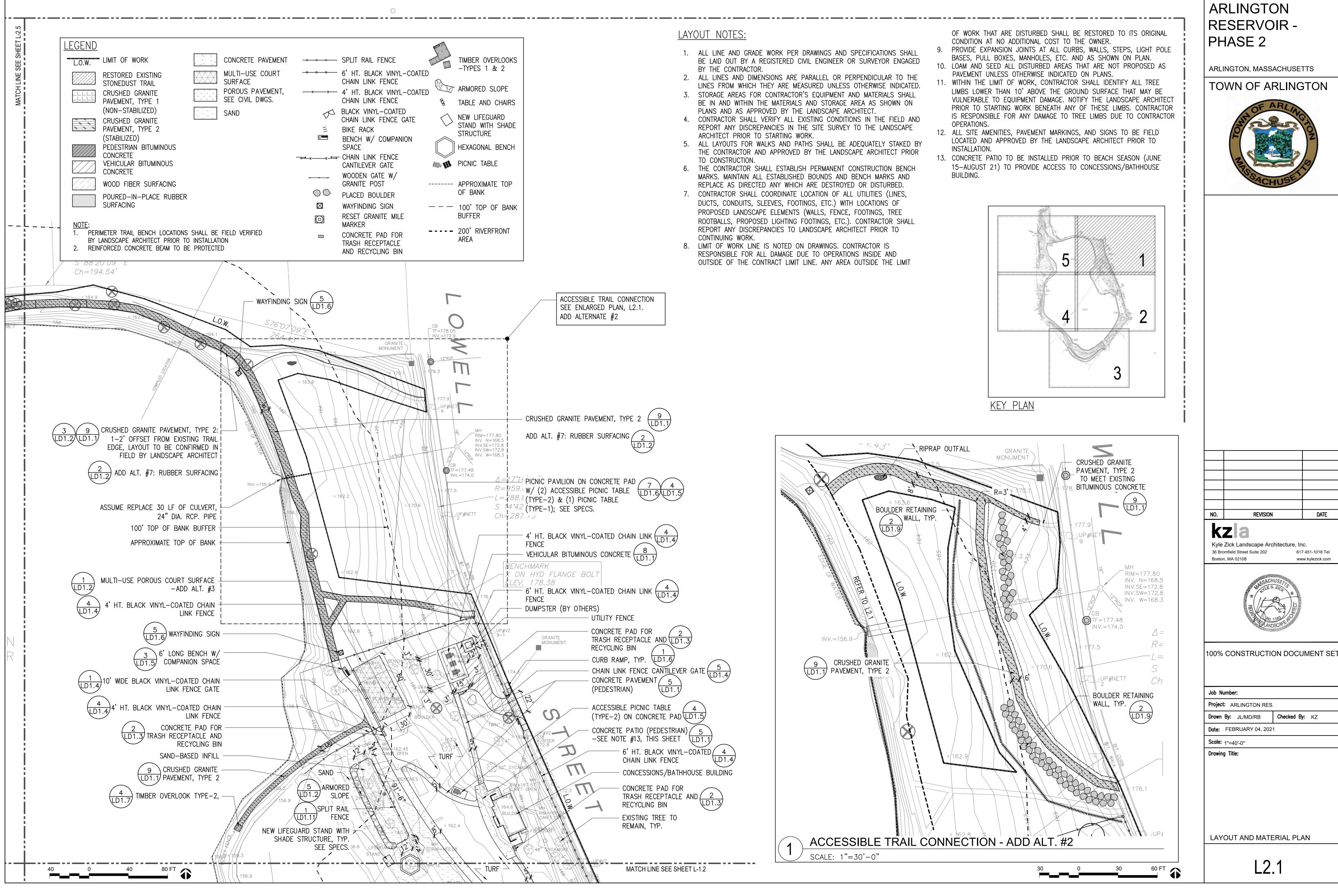




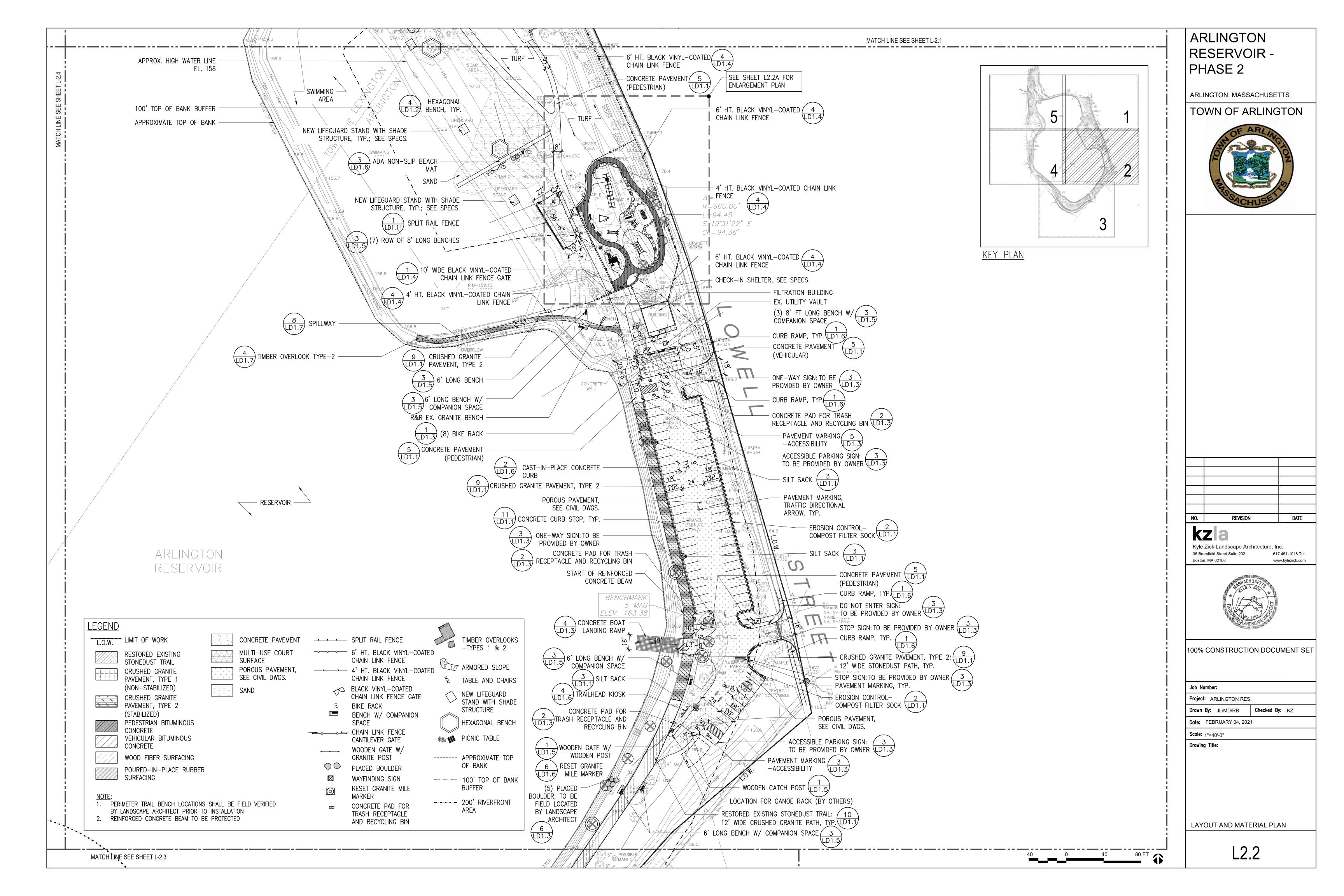


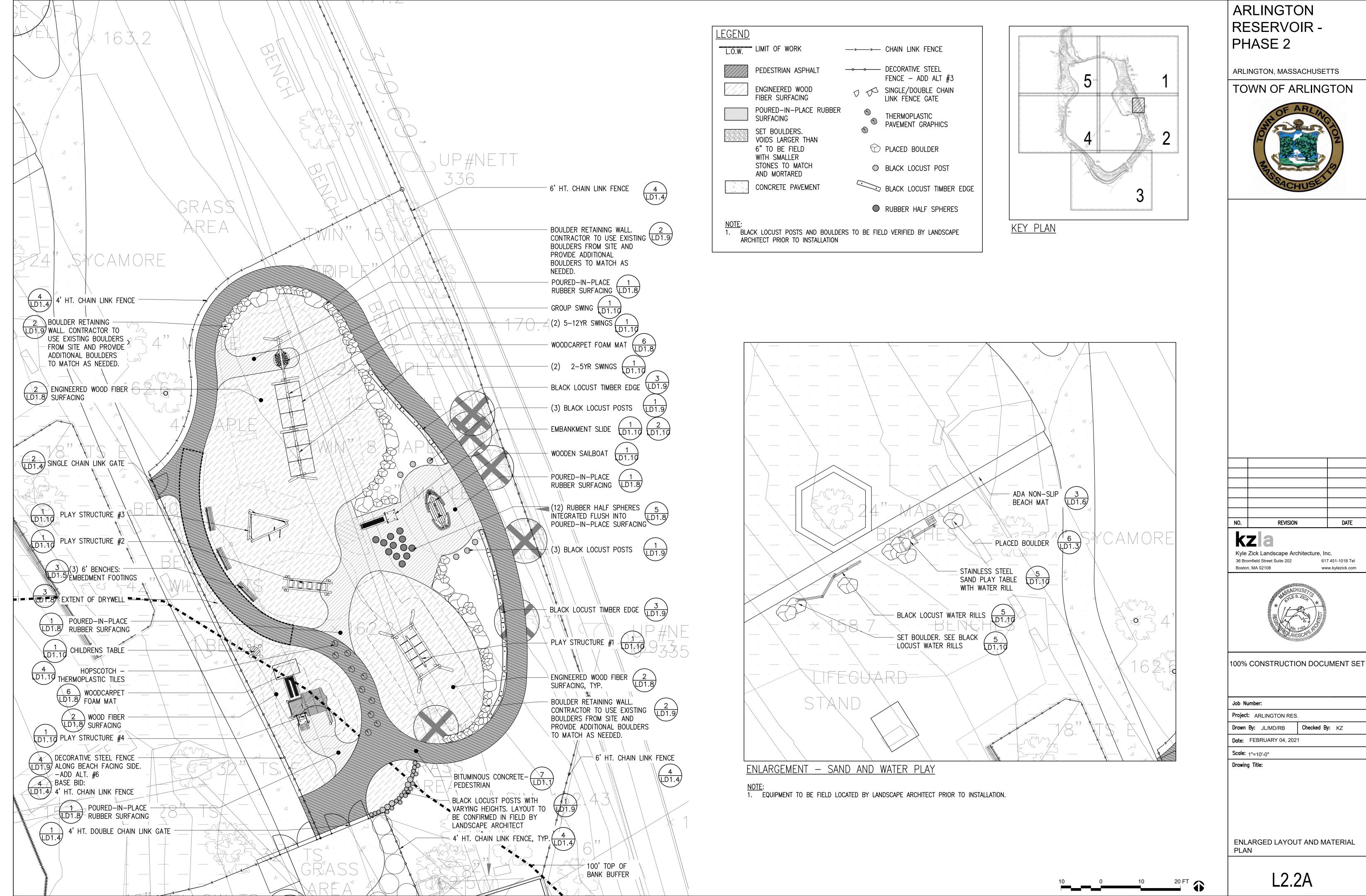


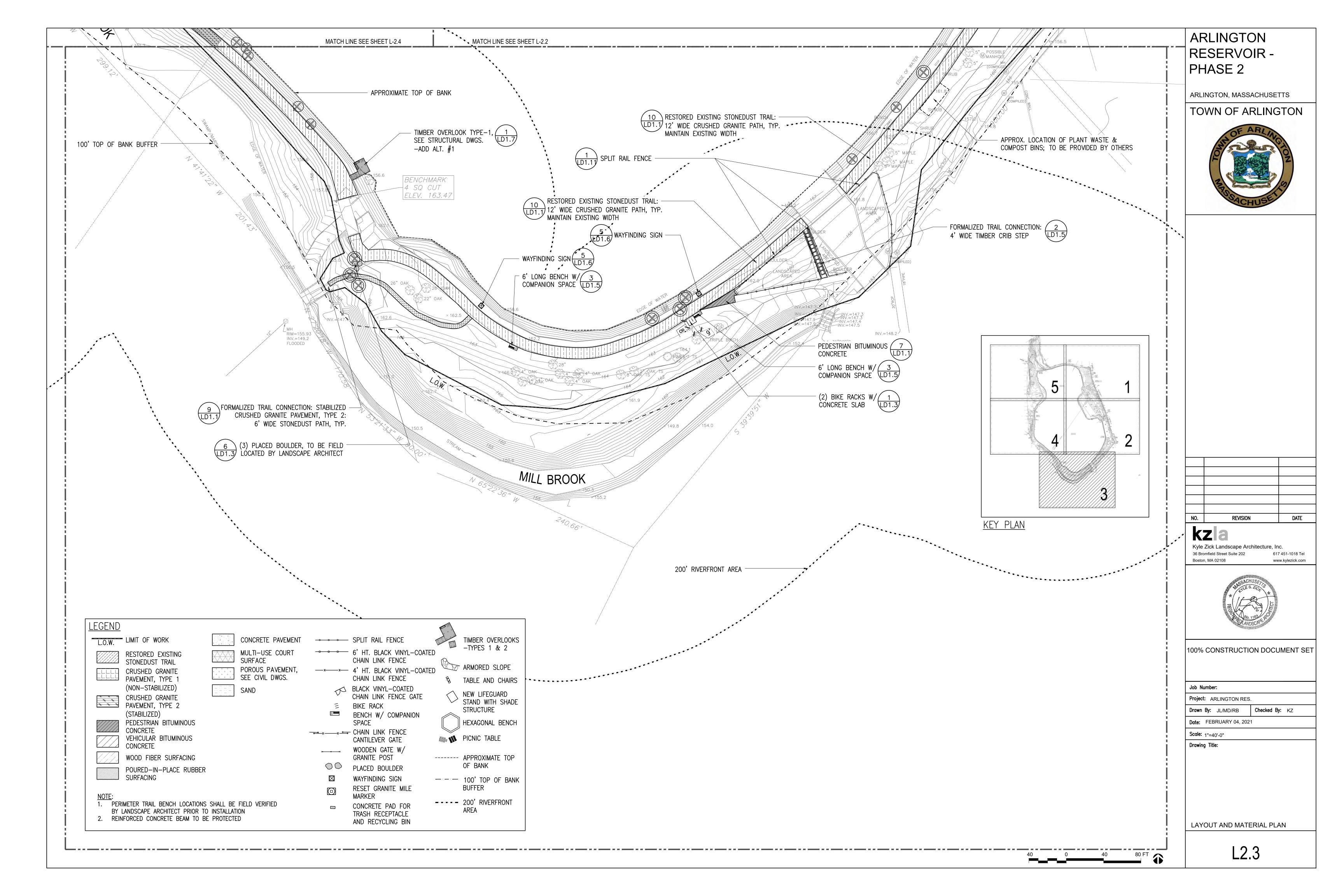


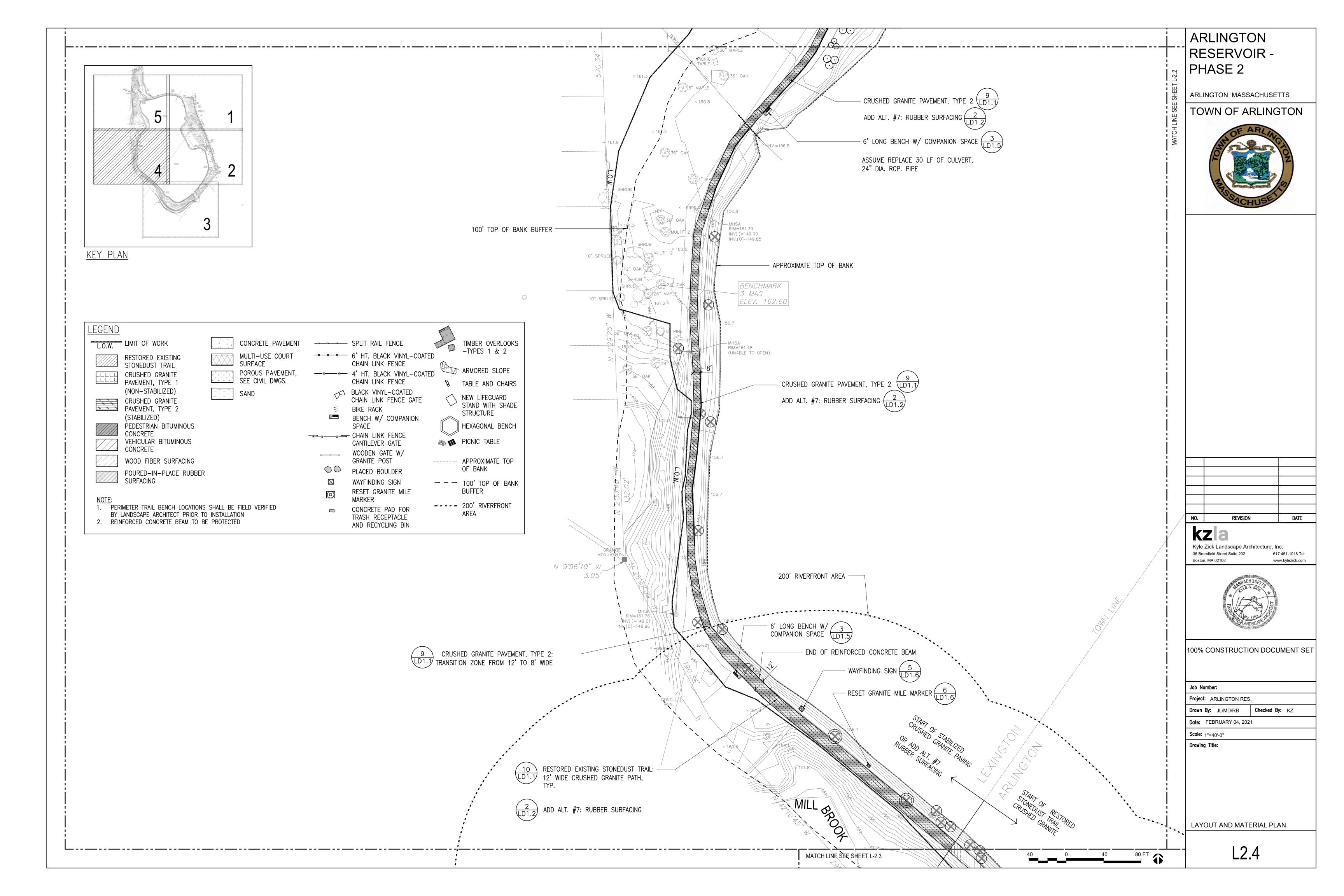


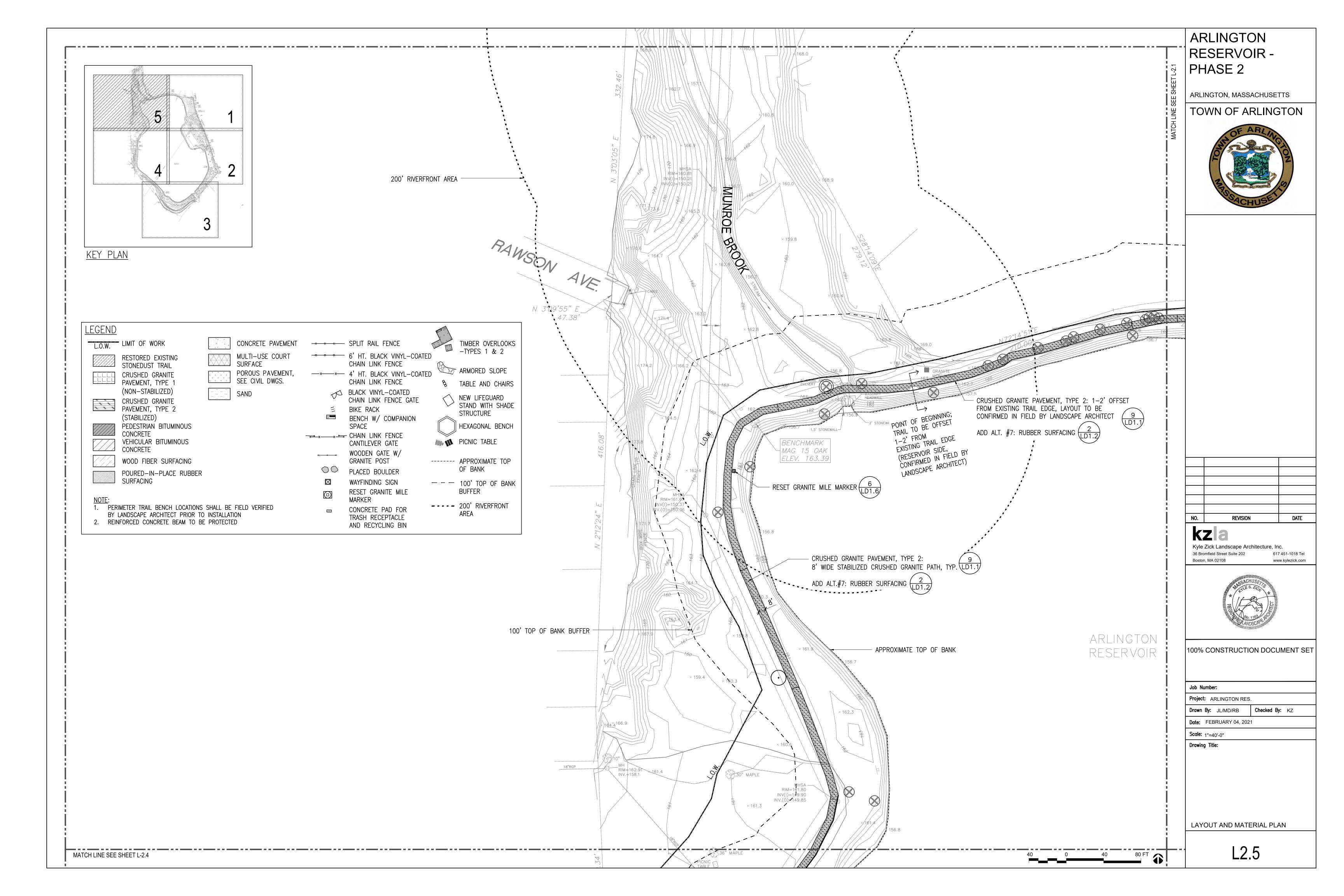


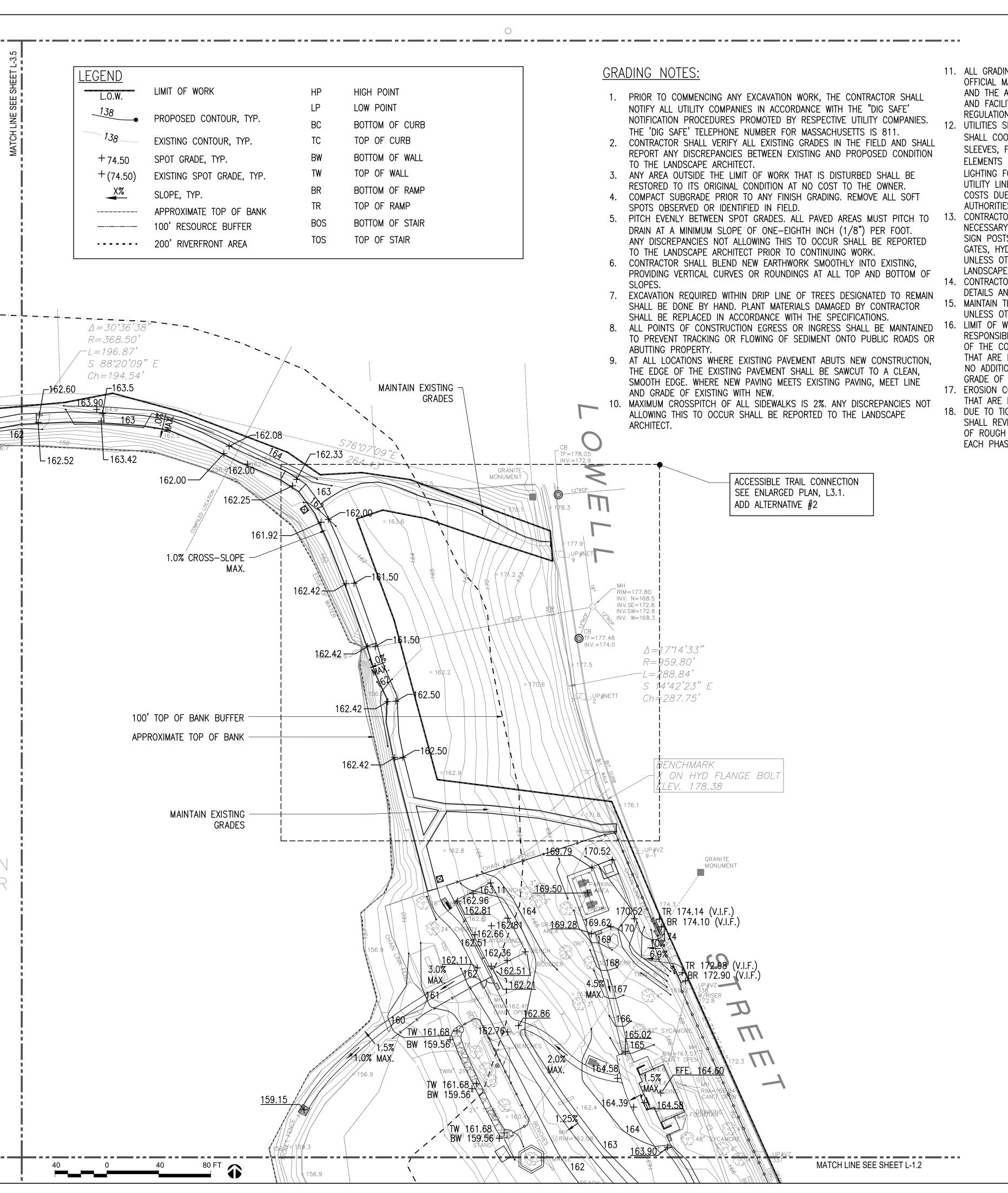




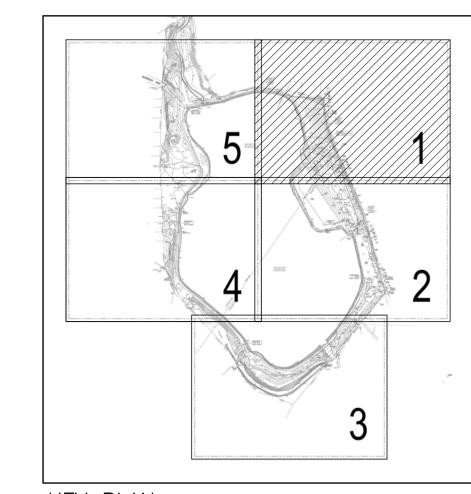








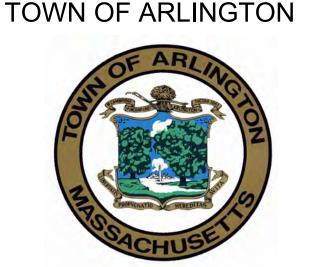
- 11. ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE OFFICIAL MANUAL OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR BUILDINGS AND FACILITIES, LATEST EDITION. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE GUIDELINE PROVIDING GREATER ACCESS SHALL APPLY.
- 12. UTILITIES SHOWN ON THIS PLAN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- 13. CONTRACTOR SHALL MAINTAIN OR ADJUST TO PROPOSED FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POSTS, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON UTILITY DRAWINGS OR AS DIRECTED BY LANDSCAPE ARCHITECT.
- 14. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- 15. MAINTAIN THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES, UNLESS OTHERWISE NOTED ON DRAWINGS.
- 16. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE. 17. EROSION CONTROL BLANKETS SHALL BE USED ON NEWLY GRADED SLOPES
- THAT ARE EQUAL TO OR STEEPER THAN A 3:1 SLOPE. 18. DUE TO TIGHT GRADING REQUIREMENTS FOR PAVED SURFACES, CONTRACTOR
- SHALL REVIEW GRADING WITH LANDSCAPE ARCHITECT AT THE COMPLETION OF ROUGH GRADING AND AT THE COMPLETION OF BINDER COURSE FOR EACH PHASE.

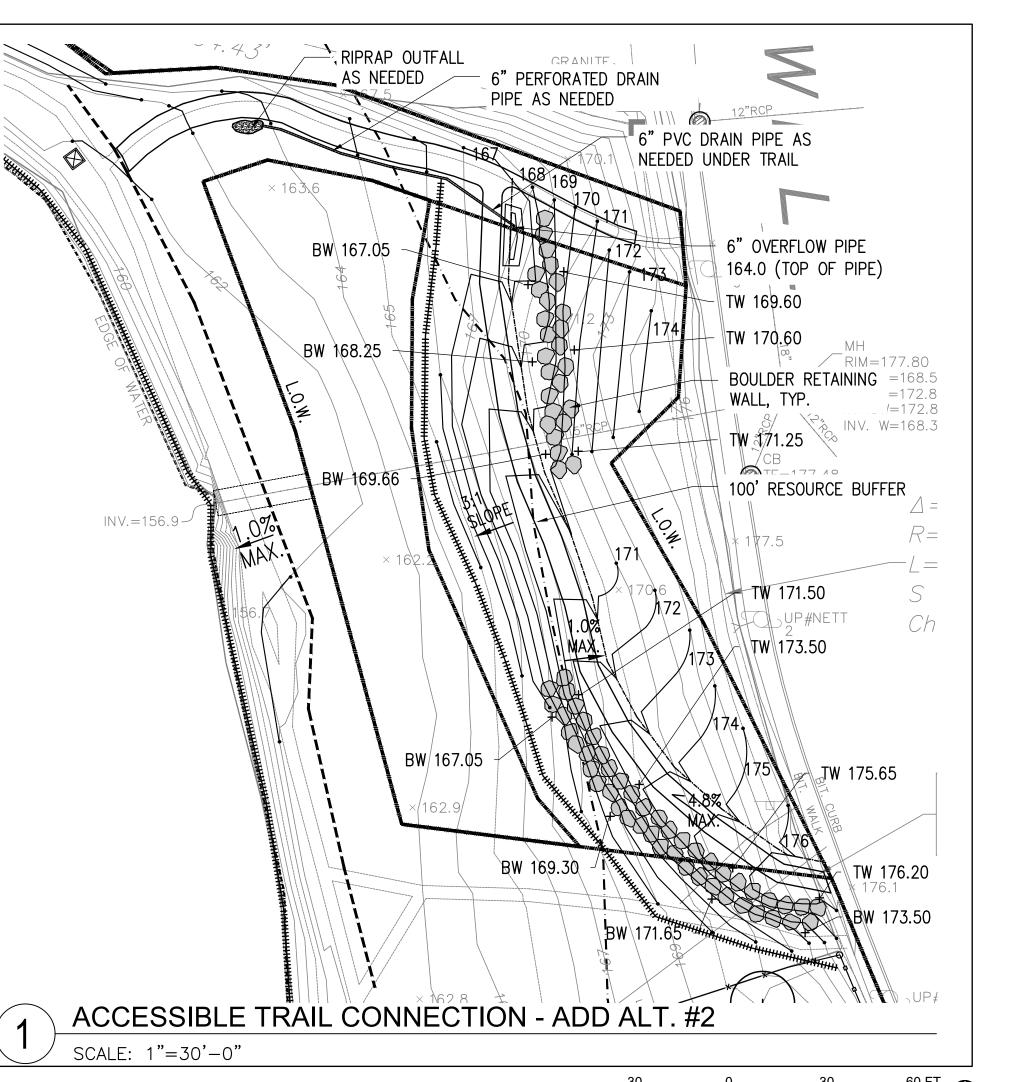


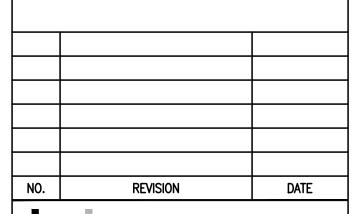
KEY PLAN

### **ARLINGTON RESERVOIR -**PHASE 2

ARLINGTON, MASSACHUSETTS







kzla

Kyle Zick Landscape Architecture, Inc. 36 Bromfield Street Suite 202 617 451-1018 Tel Boston, MA 02108 www.kylezick.com



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Job Number: Project: ARLINGTON RES.

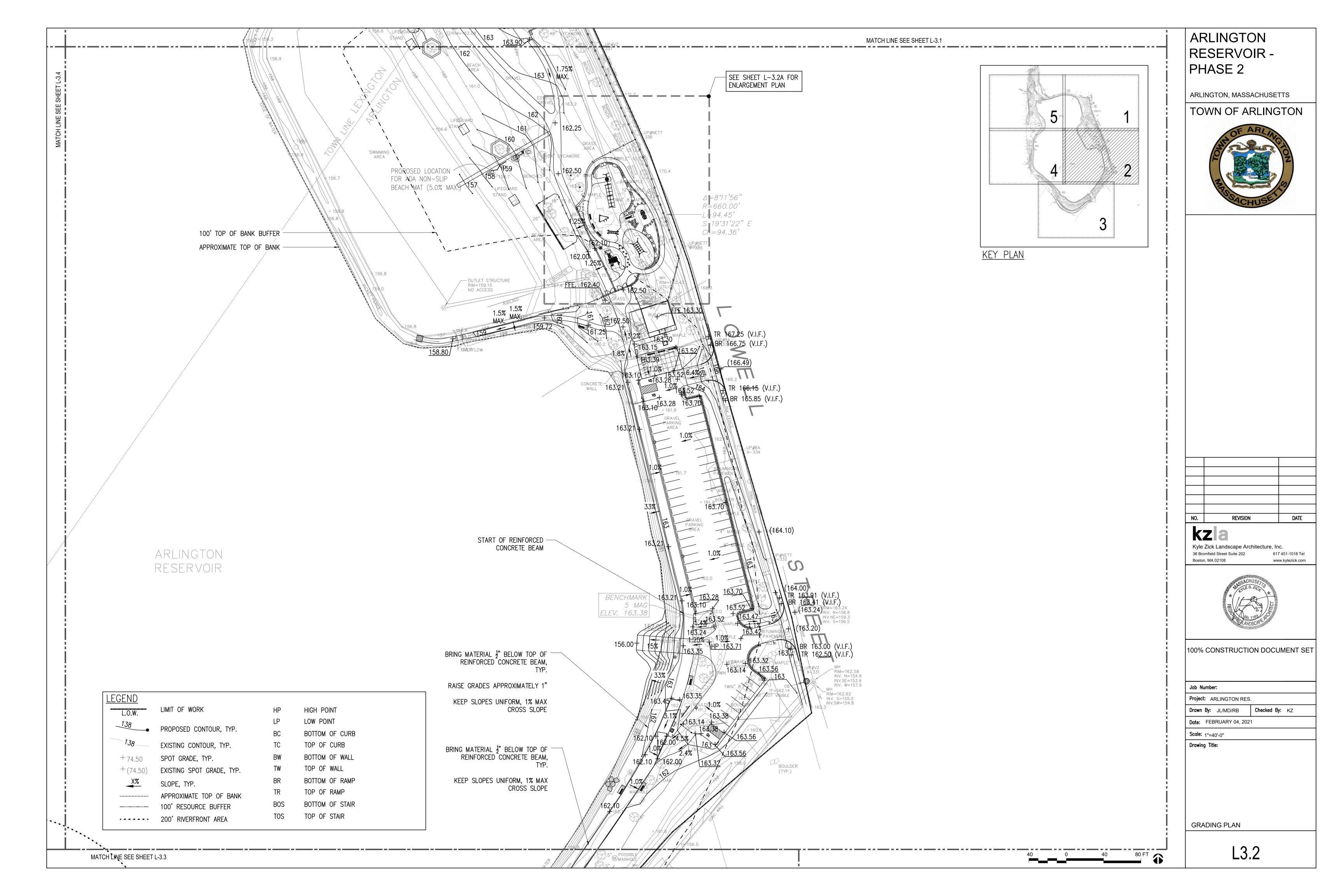
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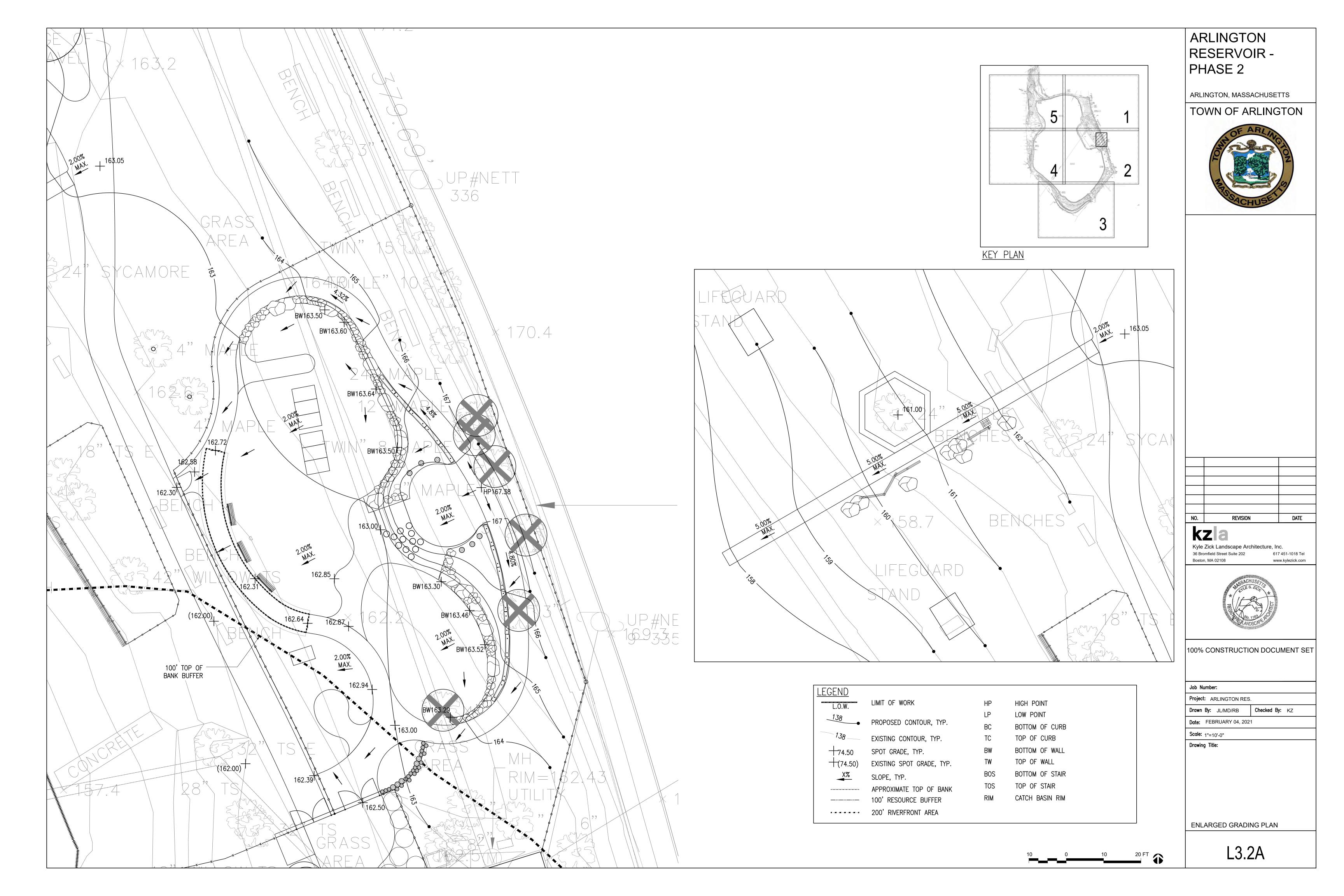
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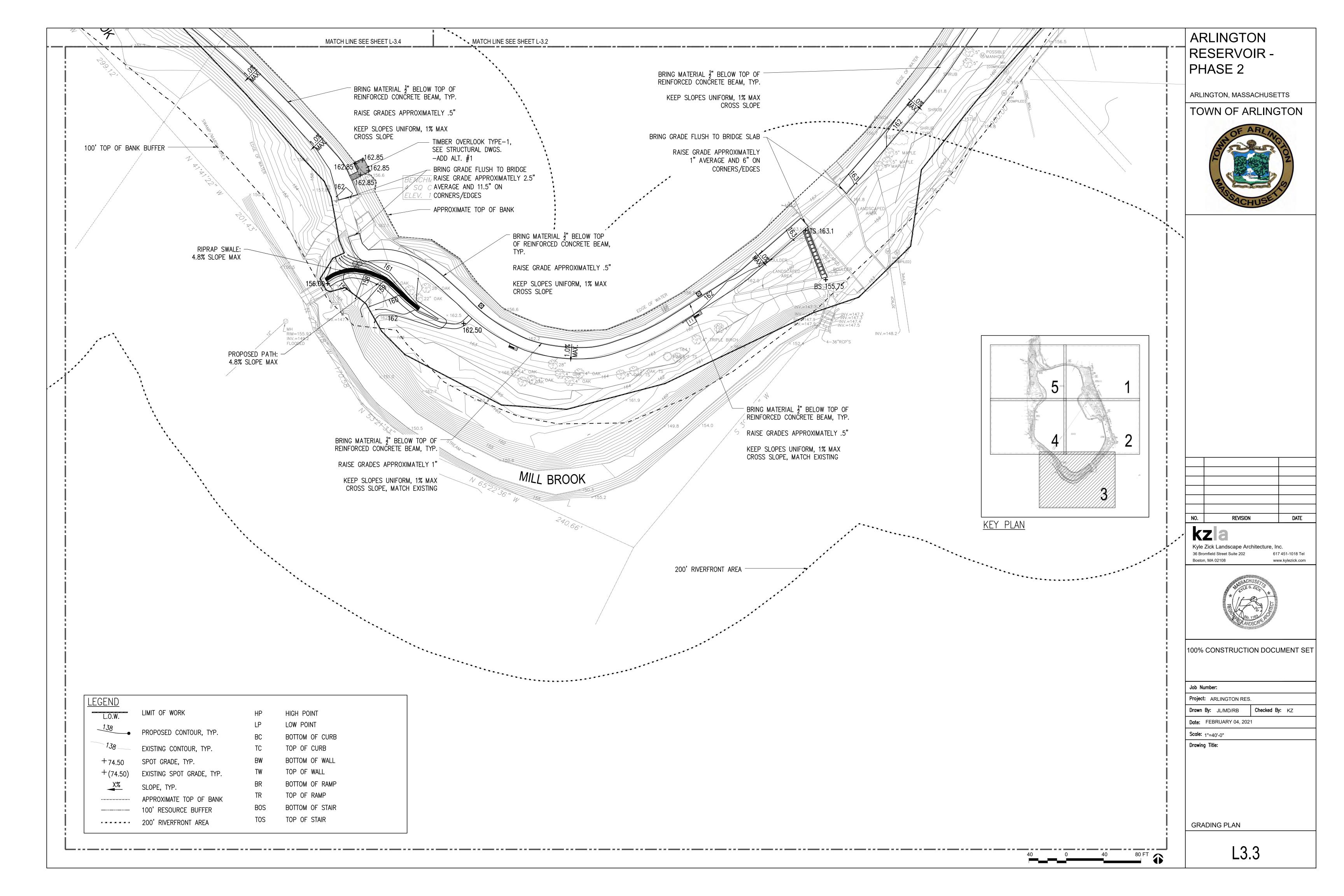
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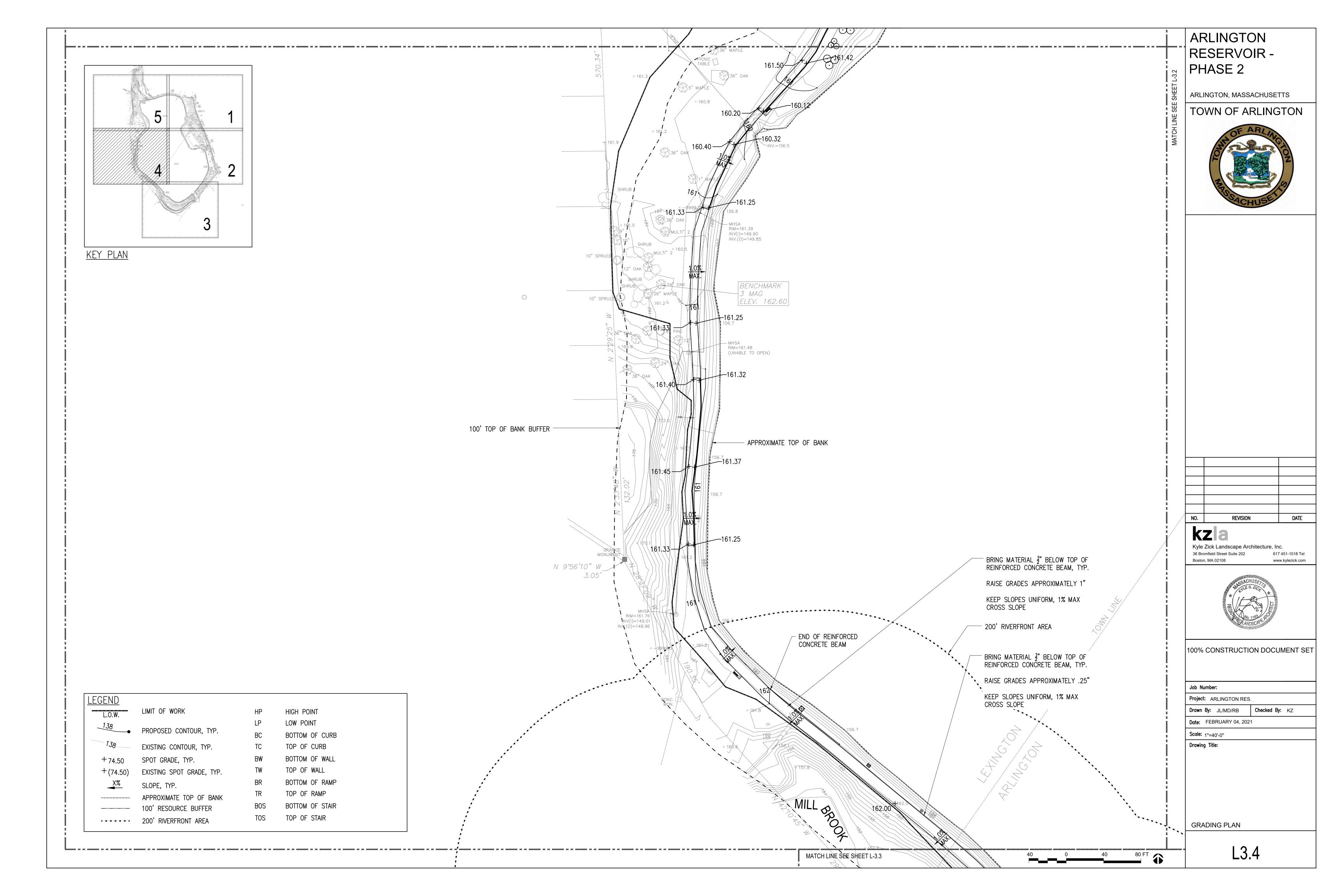
**GRADING PLAN** 

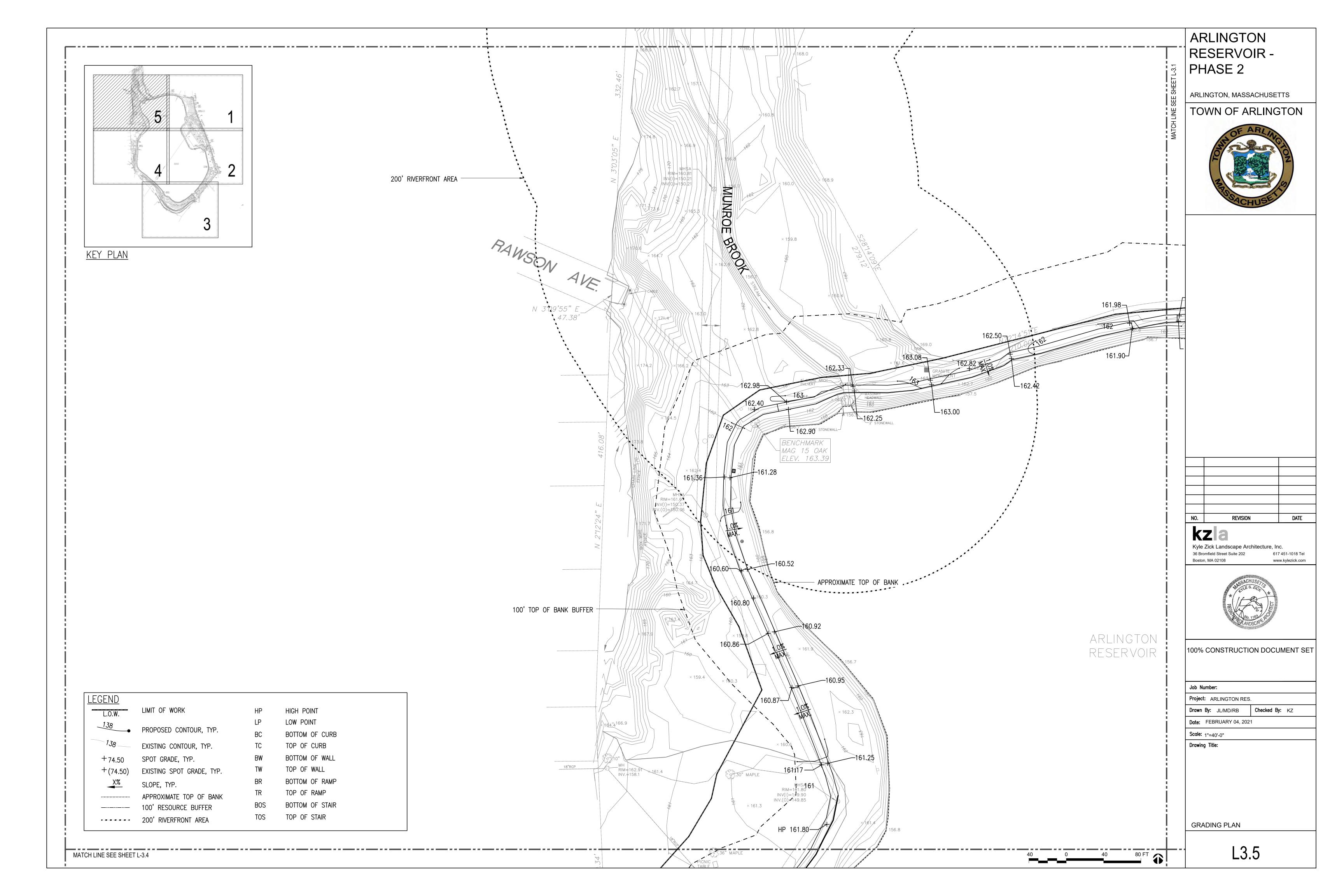
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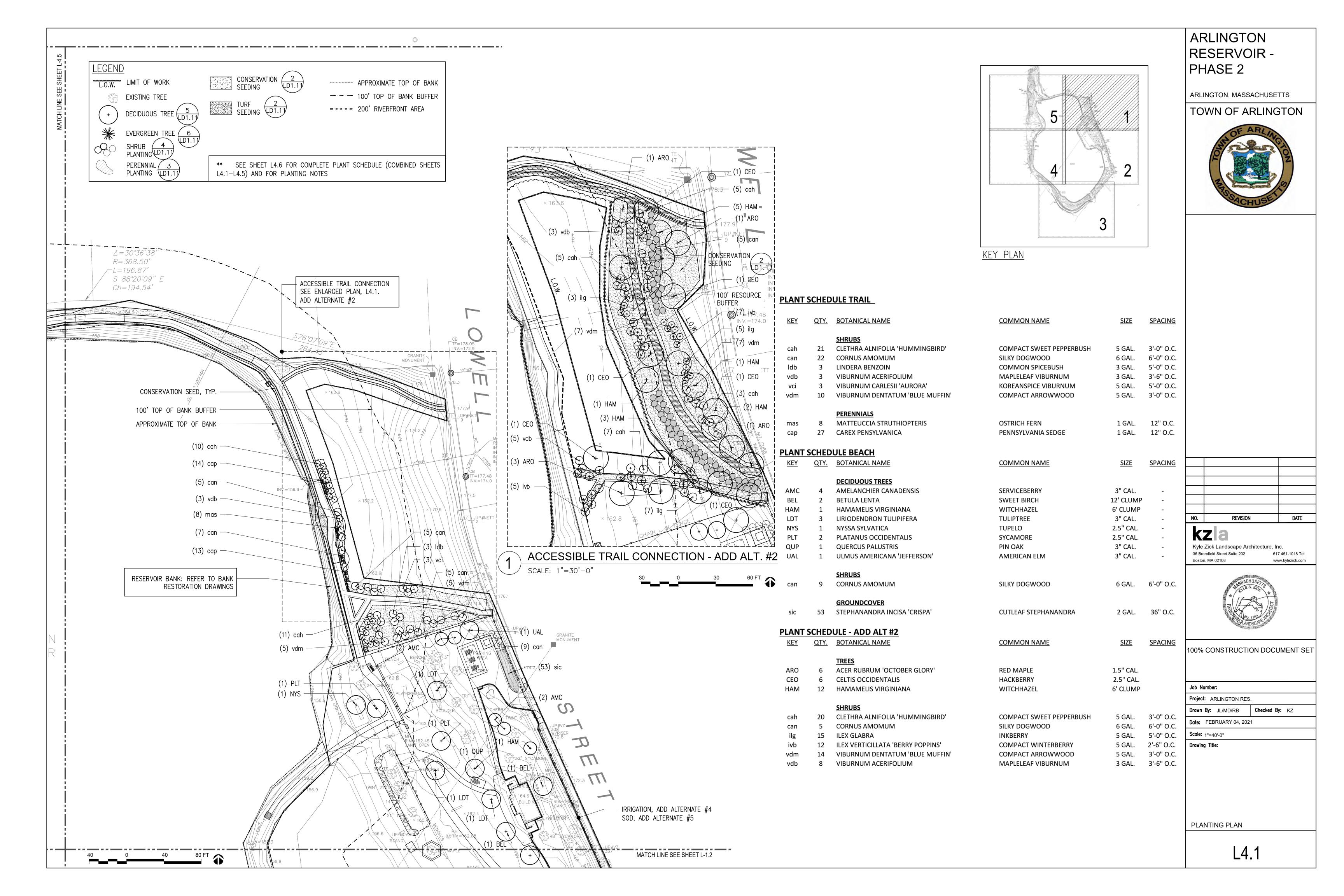


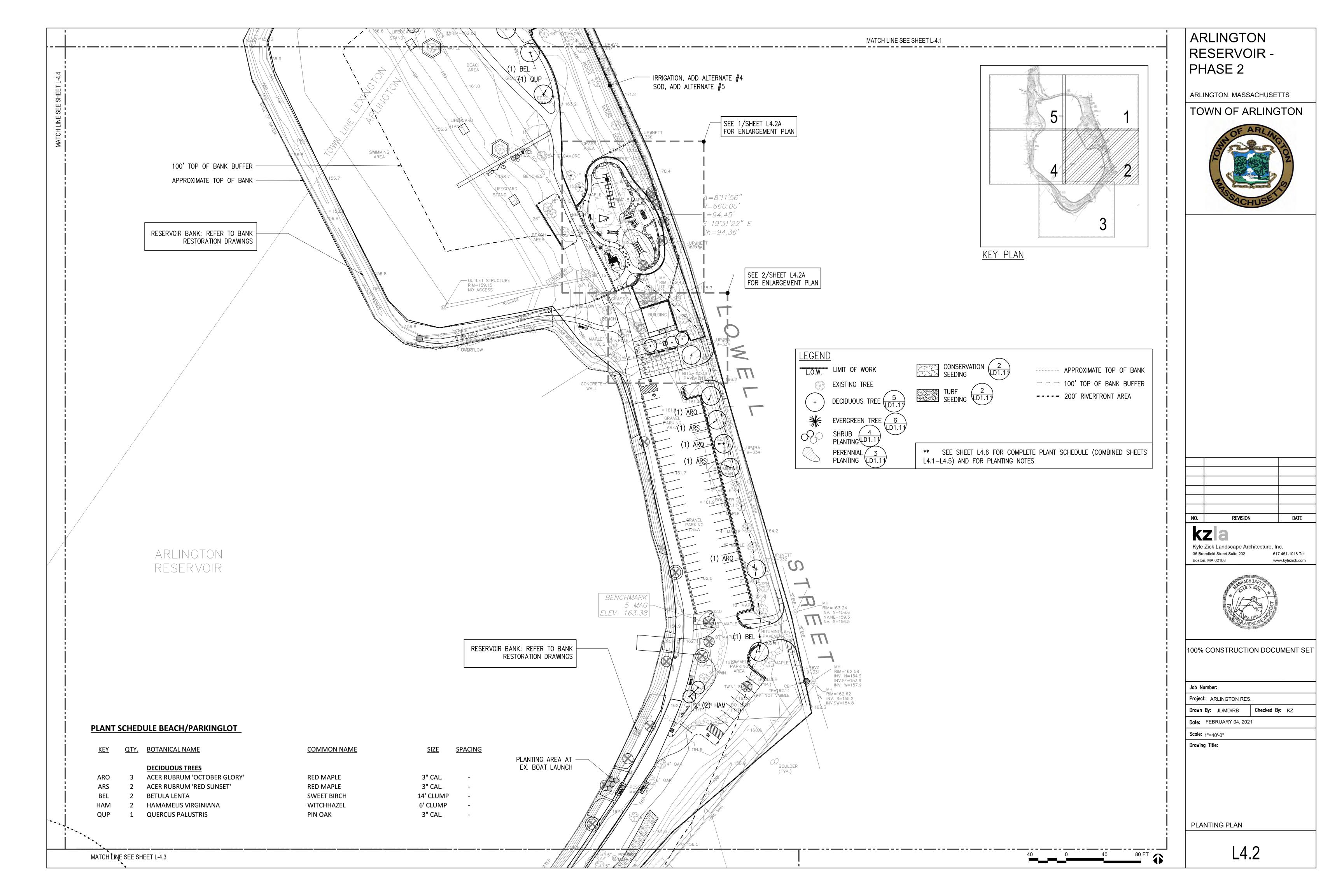


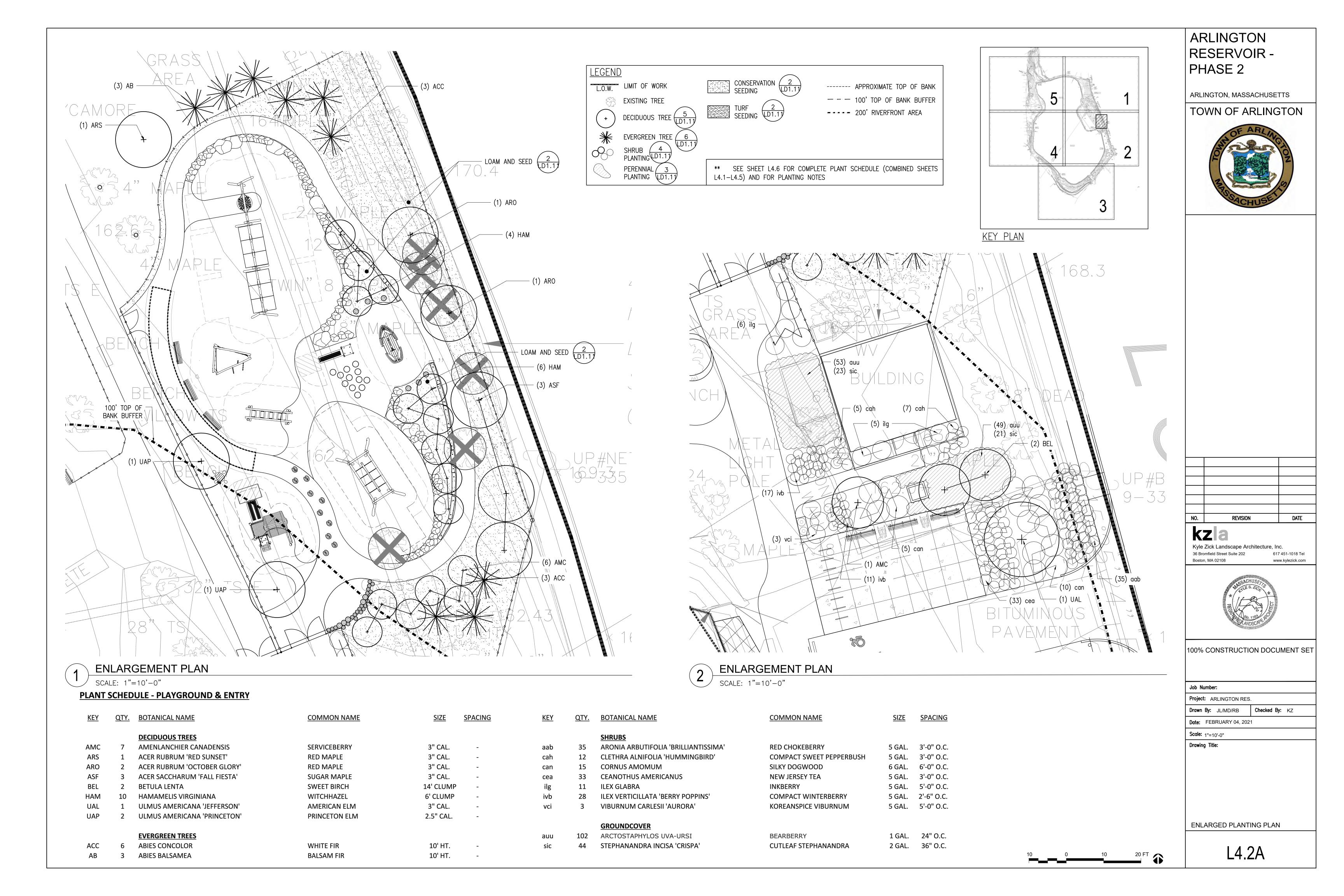


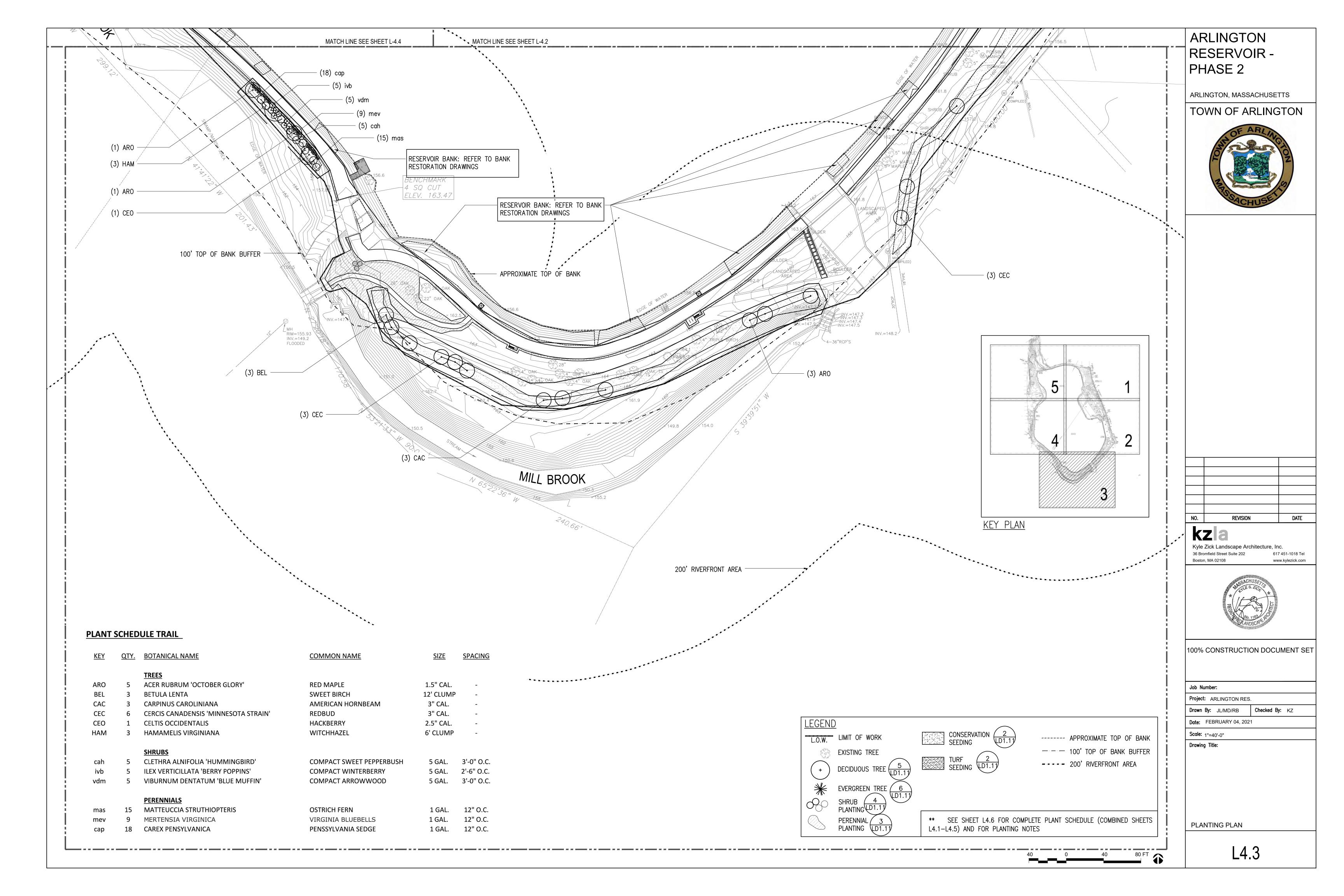


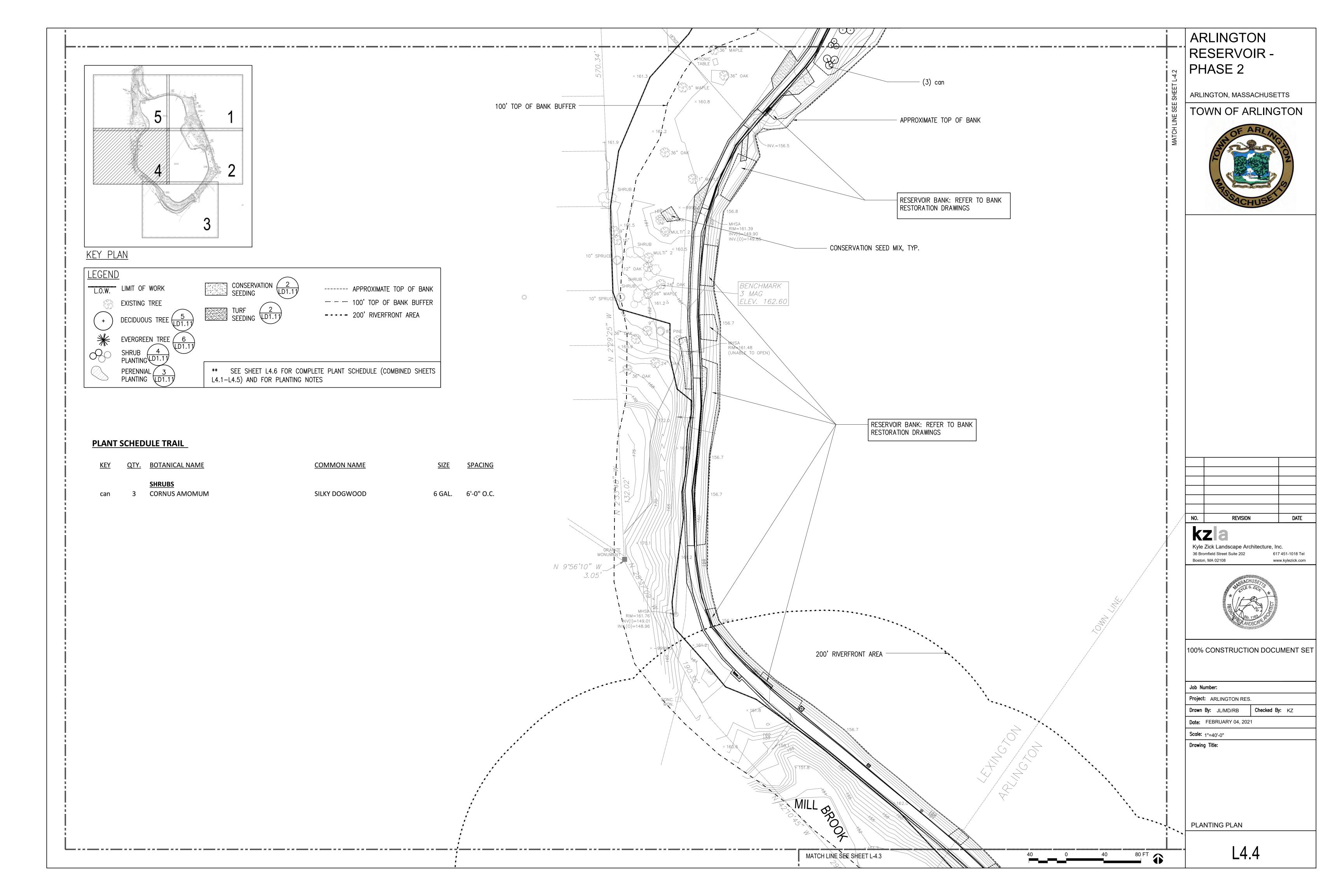


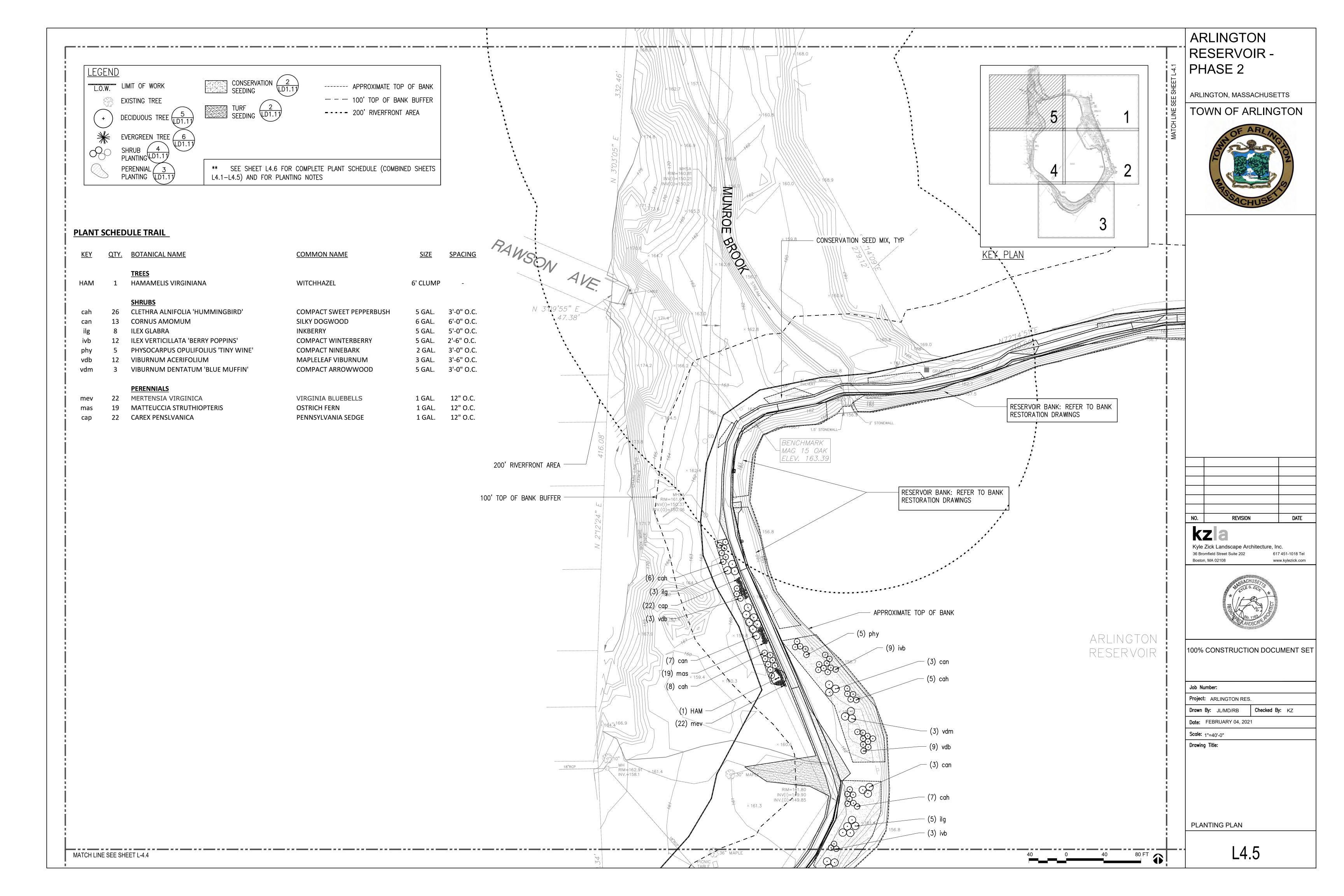












#### PLANTING NOTES:

- 1. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT SCHEDULE, THE PLANTING PLAN SHALL GOVERN
- 2. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- 3. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.
- 4. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- 5. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND SHALL BE NATIVE PLANTS ON THE OLMSTED PLANTING LIST. ALL SUBSTITUTIONS SHALL REQUIRE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- 6. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE
- NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
  7. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING
- AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.

  8. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT
- PRIOR TO THE COMMENCEMENT OF PLANTING.

  OF THE SHALL BE SET 3" HIGHER THAN PREVIOUS CRADE NO TREES SHALL BE DIANTED.
- 9. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- 10. ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT. THE PLACEMENT OF PROTECTION DEVICES ADDITIONAL TO THOSE NOTED SHALL, HOWEVER, BE AT THE CONTRACTOR'S DISCRETION.
- 11. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- 12. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCES, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
- 13. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 14. IN AREAS WHERE EXISTING PAVEMENTS ARE REMOVED AND ARE PROPOSED AS TURF, THE CONTRACTOR SHALL REMOVE THE PAVEMENT AND BASE, PROVIDE FILL AND 6" TOPSOIL PRIOR TO SEEDING.
- 15. CONTRACTOR SHALL PROVIDE PRUNING BY CERTIFIED ARBORIST. PRUNING SHALL BE REVIEWED WITH LANDSCAPE ARCHITECT PRIOR TO WORK.
- 16. ANY IDENTIFIED DEPRESSION SHALL BE FILLED WITH LOAM, SUFFICIENT TO ENSURE THAT SOIL IS LEVEL WITH SURROUNDING GRADE AFTER SETTLEMENT, AND SEEDED.
- 17. LOAM AND SEED ALL DISTURBED AREAS THAT ARE NOT PROPOSED AS PAVEMENT, INCLUDING AREAS OF INVASIVE REMOVAL AND STUMP REMOVAL.
- 18. EROSION CONTROL BLANKETS SHALL BE USED ON NEWLY GRADED SLOPES THAT ARE EQUAL TO OR STEEPER THAN A 3:1 SLOPE.
- 19. UNLESS OTHERWISE DESIGNATED, ALL INVASIVE MANAGEMENT AREAS, UNLESS LOCATED IN RIPRAP OR PROPOSED AS HARDSCAPE, SHALL BE TOP DRESSED WITH LOAM AND SEEDED.

8 VIBURNUM ACERIFOLIUM

PLAINT 3	CHEDU	LE - IVIASTER SHEET			
<u>KEY</u>	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	<u>SPACING</u>
		<u>TREES</u>			
AMC	7	AMELANCHIER CANADENSIS	SERVICEBERRY	3" CAL.	-
ARO	10	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	1.5" CAL.	-
ARS	3	ACER RUBRUM 'RED SUNSET'	RED MAPLE	3" CAL.	-
ASF	3	ACER SACCHARUM 'FALL FIESTA'	SUGAR MAPLE	3" CAL.	-
BEL	5	BETULA LENTA	SWEET BIRCH	14' CLUMP	-
CAC	3	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	3" CAL.	
CEC	6	CERCIS CANADENSIS 'MINNESOTA STRAIN'	REDBUD	3" CAL.	-
CEO	1	CELTIS OCCIDENTALIS	HACKBERRY	2.5" CAL.	
HAM	17	HAMAMELIS VIRGINIANA	WITCHHAZEL	6' CLUMP	-
LDT	3	LIRIODENDRON TULIPIFERA	TULIPTREE	3" CAL.	-
NYS	1	NYSSA SYLVATICA	TUPELO	2.5" CAL.	-
PLT	2	PLATANUS OCCIDENTALIS	SYCAMORE	2.5" CAL.	-
QUP	2	QUERCUS PALUSTRIS	PIN OAK	3" CAL.	-
UAL	2	ULMUS AMERICANA 'JEFFERSON'	AMERICAN ELM	3" CAL.	-
UAP	2	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2.5" CAL.	_
<b>5</b> 7	_			2.0 0/12.	
		EVERGREEN TREES			
ACC	6	ABIES CONCOLOR	WHITE FIR	10' HT.	_
AB	3	ABIES BALSAMEA	BALSAM FIR	10' HT.	_
Ab	5	ADIES DALSAIVILA	BALSAIVITIK	10 111.	
		SHRUBS			
aab	35	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	RED CHOKEBERRY	5 GAL.	3'-0" O.C.
cah	64	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	COMPACT SWEET PEPPERBUS	5 GAL. 5 GAL.	3'-0" O.C.
can	62 33	CORNUS AMOMUM	SILKY DOGWOOD	6 GAL.	6'-0" O.C.
cea	33	CEANOTHUS AMERICANUS	NEW JERSEY TEA	5 GAL.	3'-0" O.C.
ilg	19	ILEX GLABRA	INKBERRY	5 GAL.	5'-0" O.C.
ivb	45	ILEX VERTICILLATA 'BERRY POPPINS'	COMPACT WINTERBERRY	5 GAL.	2'-6" O.C.
ldb	3	LINDERA BENZOIN	COMMON SPICEBUSH	3 GAL.	5'-0" O.C.
phy	5	PHYSOCARPUS OPULIFOLIUS 'TINY WINE'	COMPACT NINEBARK	2 GAL.	3'-0" O.C.
vdb	15	VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM	3 GAL.	3'-6" O.C.
vci	6	VIBURNUM CARLESII 'AURORA'	KOREANSPICE VIBURNUM	5 GAL.	5'-0" O.C.
vdb	18	VIBURNUM DENTATUM 'BLUE MUFFIN'	COMPACT ARROWWOOD	5 GAL.	3'-0" O.C.
		CROLINDCOVER			
	400	GROUNDCOVER		4.041	2411.0.0
auu	102	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	1 GAL.	24" O.C.
sic	97	STEPHANANDRA INCISA 'CRISPA'	CUTLEAF STEPHANANDRA	2 GAL.	36" O.C.
		DEDENNIALS			
<b>100.01</b>	45	PERENNIALS MEDITENICIA VIDICINICA	VIDCINIA BLUEBELLO	1 ( )	12" 0 0
mev	45	MERTENSIA VIRGINICA	VIRGINIA BLUEBELLS	1 GAL.	12" O.C.
mas	42	MATTEUCCIA STRUTHIOPTERIS	OSTRICH FERN	1 GAL.	12" O.C.
cap	67	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.	12" O.C.
DI ANT C	CHEDII	IE ADD ALT#2			
		LE - ADD ALT #2	CONANAONINIANAE	CIZE	CDACINIC
<u>KEY</u>	QIY.	BOTANICAL NAME	COMMON NAME	<u>SIZE</u>	<u>SPACING</u>
		TREES			
ABO	c	TREES ACER RUBRUM 'OCTOBER GLORY'	DED MADI E	1.5" CAL.	
ARO	6		RED MAPLE		
CEO HAM	6 12	CELTIS OCCIDENTALIS HAMAMELIS VIRGINIANA	HACKBERRY WITCHHAZEL	2.5" CAL. 6' CLUMP	
ПАІVІ	12	HAMAMELIS VINGINIANA	WITCHHAZEL	O CLUIVIF	
		SHRUBS			
cah	20	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	COMPACT SWEET PEPPERBUS	5 GAL.	3'-0" O.C.
can	5	CORNUS AMOMUM	SILKY DOGWOOD	6 GAL.	6'-0" O.C.
ilg	15	ILEX GLABRA	INKBERRY	5 GAL.	5'-0" O.C.
ivb	12	ILEX VERTICILLATA 'BERRY POPPINS'	COMPACT WINTERBERRY	5 GAL. 5 GAL.	2'-6" O.C.
vdm	14	VIBURNUM DENTATUM 'BLUE MUFFIN'	COMPACT WINTERBERRY	5 GAL. 5 GAL.	3'-0" O.C.
vam	0	VIBURNUM ACEDICALIMA	MAADI ELEAE VIDLIDALIA	3 GAL.	3 -0 O.C.

3 GAL. 3'-6" O.C.

MAPLELEAF VIBURNUM

### ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



NO. REVISION DATE



Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 617 45
Boston, MA 02108 www.k



617 451-1018 Tel www.kylezick.com

100% CONSTRUCTION DOCUMENT SET

Job Number:

Project: ARLINGTON RES.

Drawn By: JL/MD/RB Checked By: KZ

Date: FEBRUARY 04, 2021

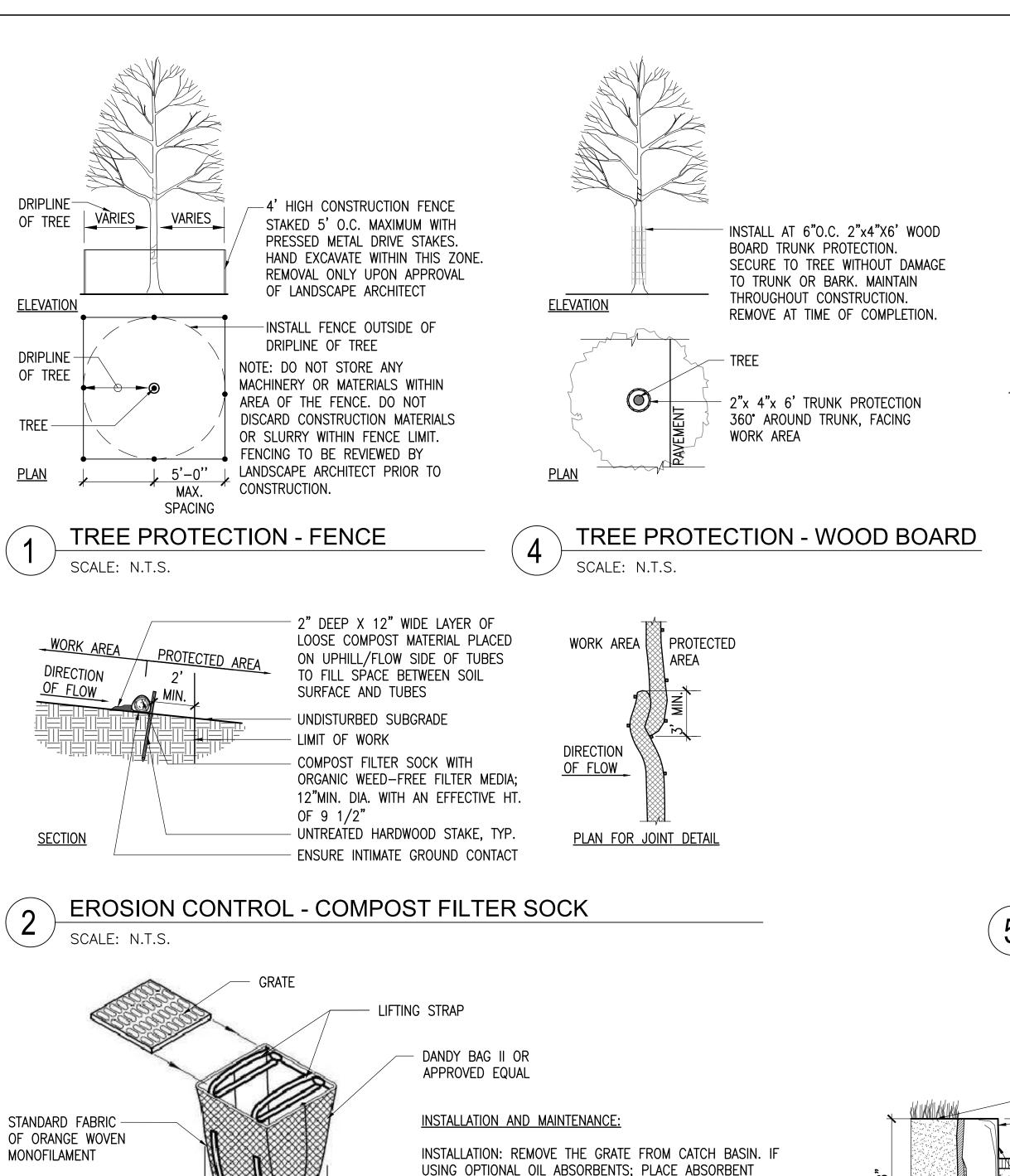
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Drawing little:

PLANTING NOTES AND SCHEDULE

L4.6



PILLOW IN UNIT. STAND GRATE ON END. MOVE THE TOP

DUMPING STRAP

ALLOWS FOR EASY

REMOVAL OF CONTENTS

SILT SACK

SCALE: N.T.S.

LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE

INTO CATCH BASIN INSERT SO THE GRATE IS BELOW THE

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND

DEBRIS FROM VICINITY OF THE UNIT AFTER EACH STORM

INTERVALS, LOOK INTO THE CATCH BASIN INSERT. IF THE

REMOVE THE GRATE. IF USING OPTIONAL ABSORBENTS:

REPLACE ABSORBENT WHEN NEAR SATURAION.

**UNACCEPTABLE INLET PROTECTION METHOD:** 

CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT,

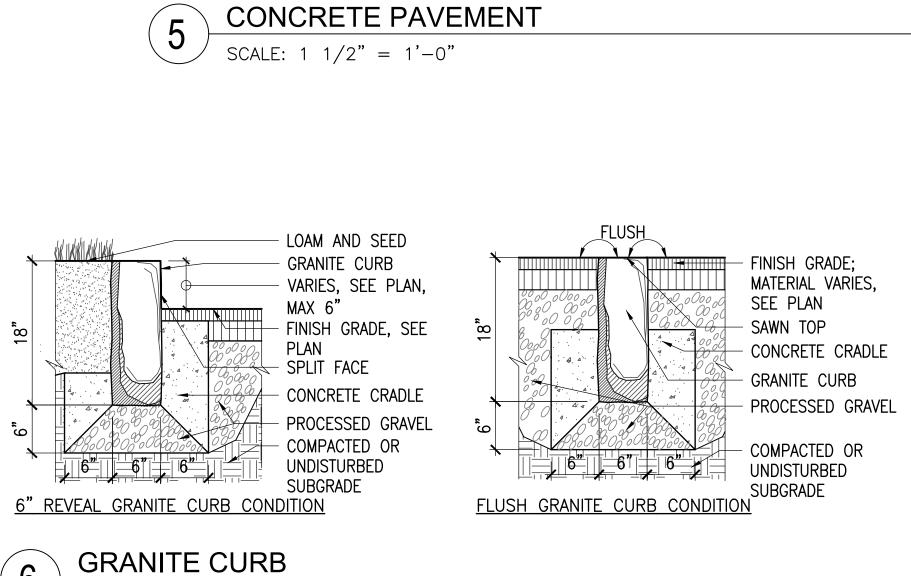
THE UNIT MUST BE EMPTIED. TO EMPTY THE UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND

A SIMPLE SHEET OF GEOTEXTILE UNDER THE GRATE IS NOT

LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

EVENT. AFTER EACH STORM EVENT AND AT REGULAR

TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE



- FINISH GRADE, SEE PLAN

6" (VEHICULAR CONC. PAVEMENT)

PROPER SLOPE

THICKENED EDGE

THE LONGITUDINAL

UNLESS OTHERWISE

NOTED ON PLANS.

GRAVEL-COMPACTED

SEED, TYP.

GRADE TO

DRAIN, TYP.

**SECTION** 

PROCESSED

**INSTALLATION NOTES FOR ALL JOINTS:** 

1. EXPANSION JOINTS 20'-0" O.C.

UNLESS SHOWN OTHERWISE 2. CONTROL JOINTS 5'-0" O.C.

UNLESS SHOWN OTHERWISE

3. SAWCUT EDGES AND JOINTS,

ALL PANELS.

DOWEL IS TYPICAL AT ALL EJ'S EXCEPT AGAINST VERTICAL

JOINTS WITH WALLS, CURBS, OR SITE IMPROVEMENTS

WELDED WIRE MESH

WELDED WIRE MESH

SAWCUT CONTROL

MEDIUM BROOM

FINISH, SEE SPECS.

EDGE TOOL SURFACE

12" EXPANSION SLEEVE,

WAXED TO PREVENT BONDING

AS NECESSARY AFTER POUR

MEDIUM BROOM FINISH, SEE SPECS.

SPECIFIED SEALANT TO MIN. 1/2" DEPTH

#6 SMOOTH DOWEL, 2'-0" LONG, 18" O.C.

PREMOLDED EXPANSION JOINT, CUT BACK

CONCRETE PAVEMENT,

-MATERIAL VARIES

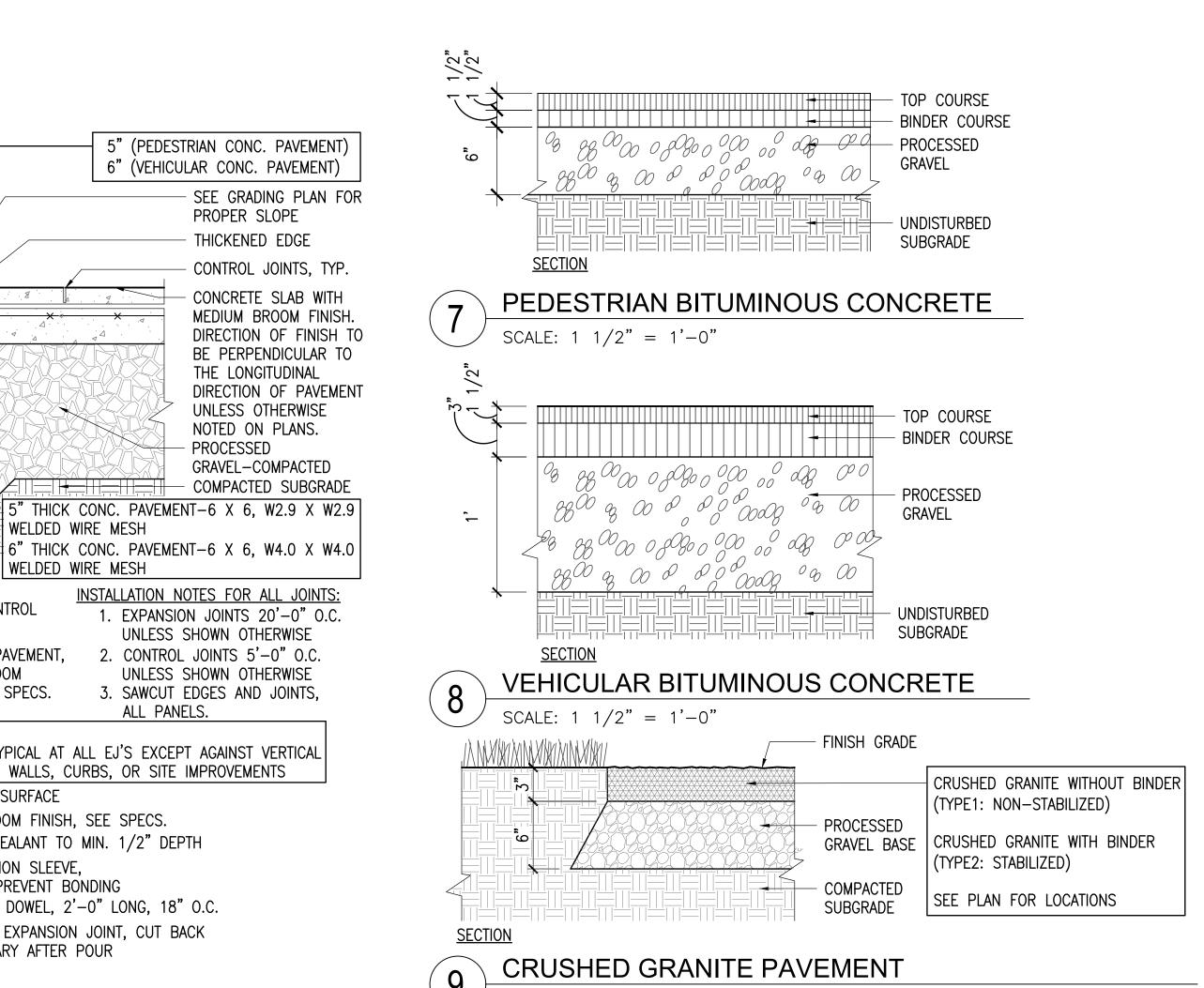
(2)

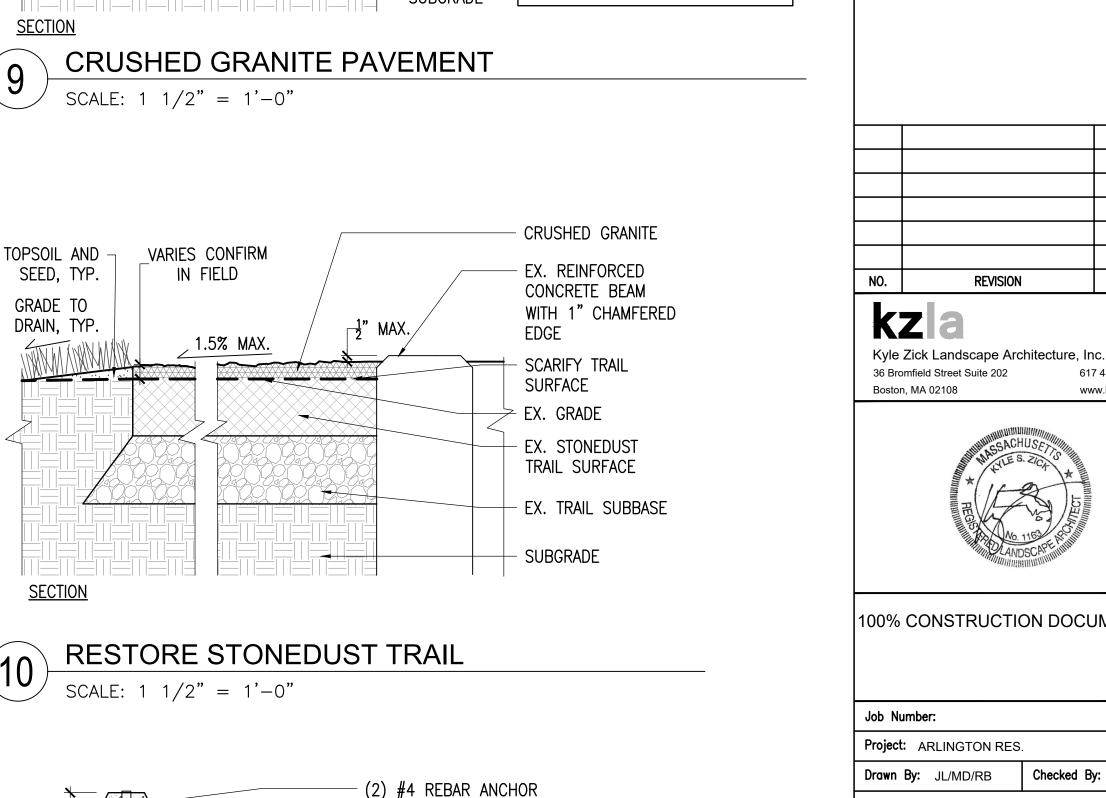
**SECTION** 

CONTROL JOINT SCALE: N.T.S.

EXPANSION JOINT SCALE: N.T.S.

SCALE: 1" = 1'-0"





PINS, 14" LONG

CURB STOP

FINISH GRADE

1. CURB STOPS TO BE 6' LONG

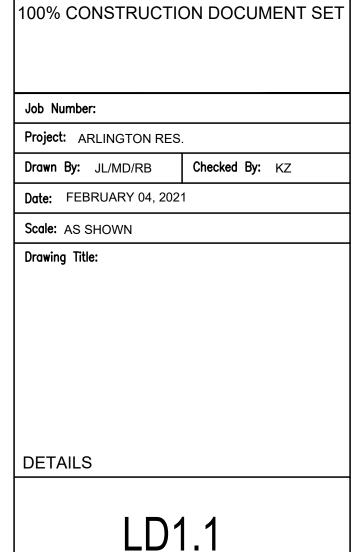
**CONCRETE CURB STOP** 

SCALE:  $1 \frac{1}{2} = 1'-0''$ 

2. SET ON CENTER TO PARKING SPACE

6' PRECAST CONCRETE

POROUS PAVEMENT. SEE CIVIL DWGS.



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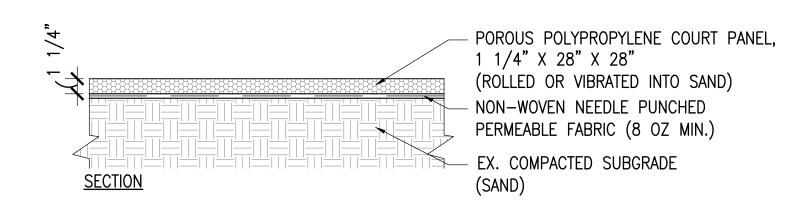
**ARLINGTON** 

PHASE 2

RESERVOIR -

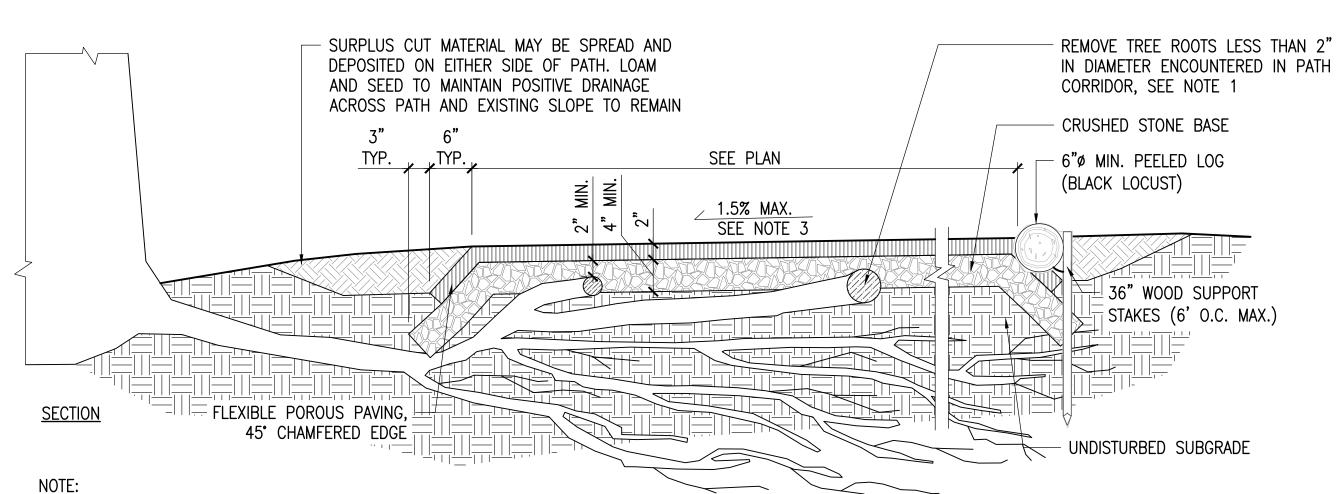
ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



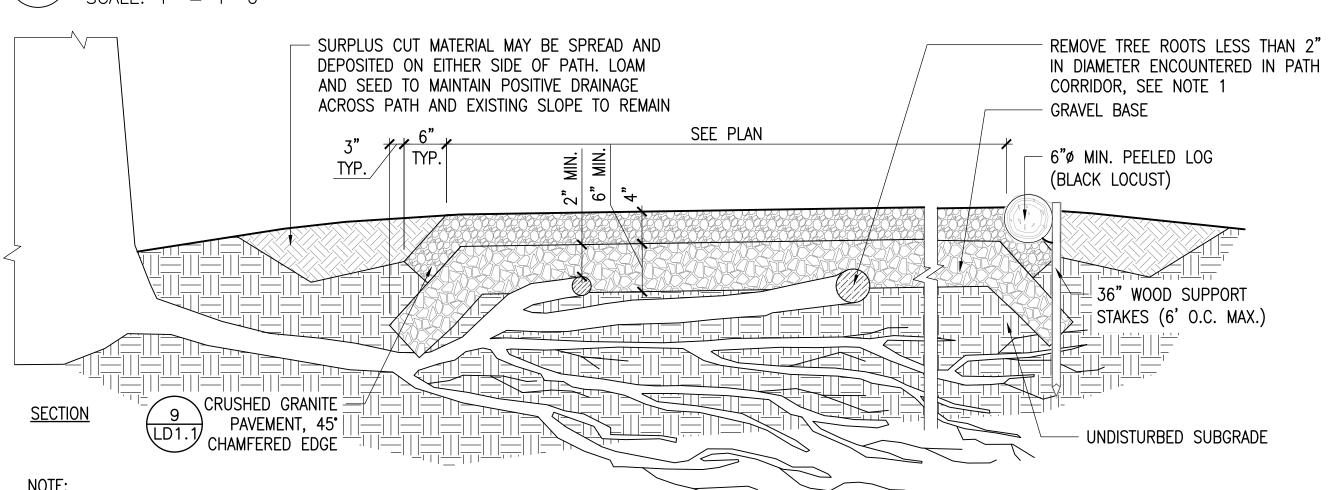
### MULTI-USE POROUS COURT SURFACE - ADD ALT. #3

SCALE:  $1 \frac{1}{2} = 1'-0''$ 



- 1. TO PREVENT INJURY TO CRITICAL ROOT ZONES OF ADJACENT TREES, SOIL IS TO BE EXCAVATED NON-INVASIVELY A MINIMUM OF 6 INCHES USING SUPERSONIC AIR PRUNING MAY BE PERFORMED BY ARBORIST AS NEEDED ON SELECTED ROOTS LESS THAN 2 INCHES IN DIAMETER PROVIDED NO MORE THAN 15% OF THE CRITICAL ROOT ZONE IS REMOVED.
- 2. WHEREVER POSSIBLE, AND WITHOUT INJURING CRITICAL ROOT ZONES OF ADJACENT TREES. CRUSHED STONE BASE SHALL RUN 6 INCHES BEYOND THE END OF THE FLEXIBLE POROUS PAVING. AT LEAST 2" OF STONE SHALL COVER THE TOP OF ROOTS BEFORE FLEXIBLE POROUS MATERIAL IS LAID.
- 3. WALKWAY SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT. ANY DISCREPANCY NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.

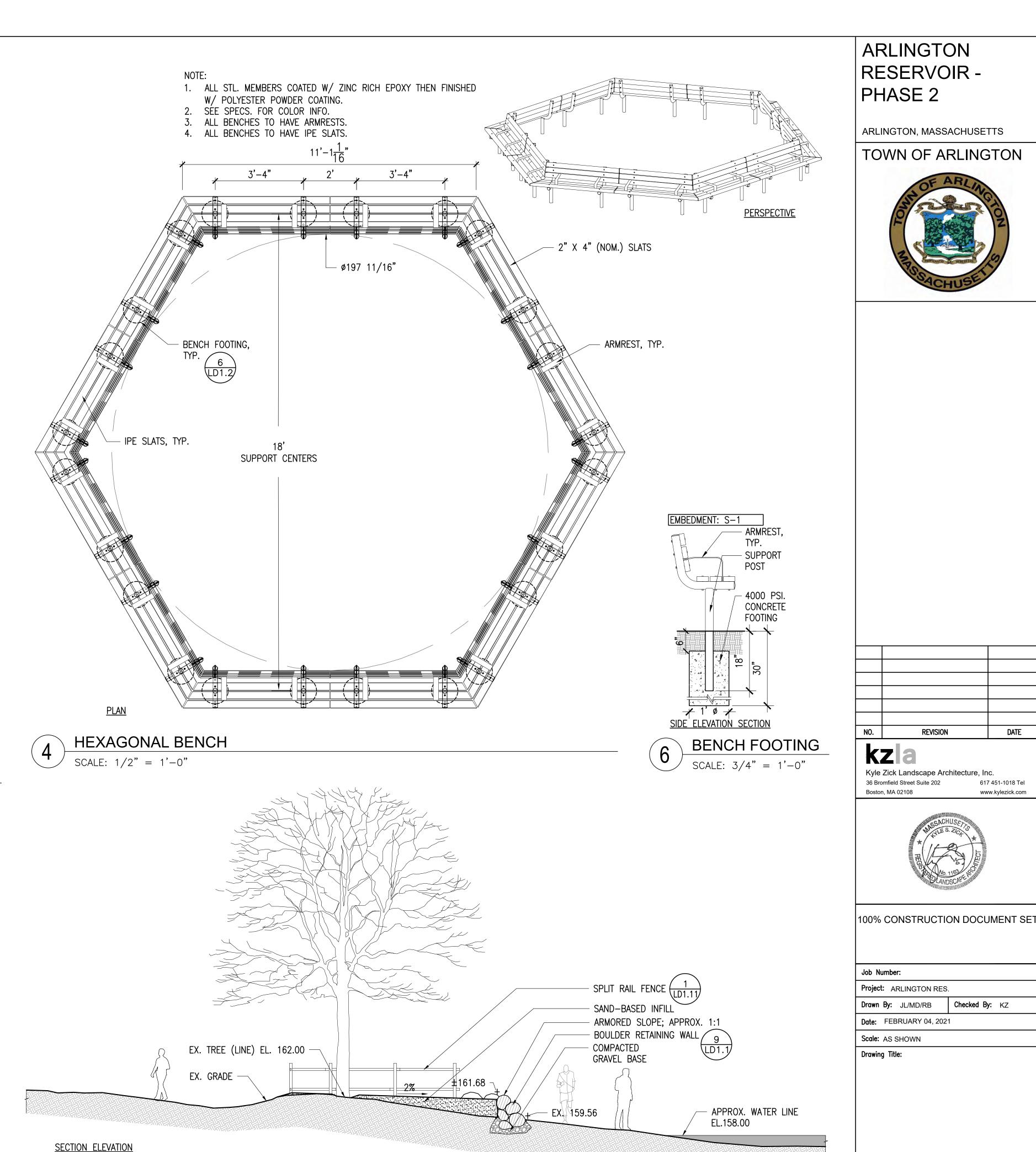
# RUBBER SURFACING - TRAIL - ADD ALT. #7



- 1. TO PREVENT INJURY TO CRITICAL ROOT ZONES OF ADJACENT TREES, SOIL IS TO BE EXCAVATED NON-INVASIVELY A MINIMUM OF 6 INCHES USING SUPERSONIC AIR KNIFE. FABRIC AND STONE ARE TO BE INSTALLED OVER AND AROUND ROOTS. SUBGRADE SHALL BE COMPACTED TO THE GREATEST EXTENT POSSIBLE. ROOT PRUNING MAY BE PERFORMED BY ARBORIST AS NEEDED ON SELECTED ROOTS LESS THAN 2 INCHES IN DIAMETER PROVIDED NO MORE THAN 15% OF THE CRITICAL ROOT ZONE IS REMOVED.
- 2. WHEREVER POSSIBLE, AND WITHOUT INJURING CRITICAL ROOT ZONES OF ADJACENT TREES. CRUSHED STONE BASE SHALL RUN 6 INCHES BEYOND THE END OF THE STONEDUST PAVING. AT LEAST 2" OF STONE SHALL COVER THE TOP OF ROOTS BEFORE STONEDUST IS LAID.
- 3. WALKWAY SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT. ANY DISCREPANCY NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.

#### STABILIZED CRUSHED GRANITE PAVEMENT OVER TREE ROOTS

SCALE: 1" = 1'-0"



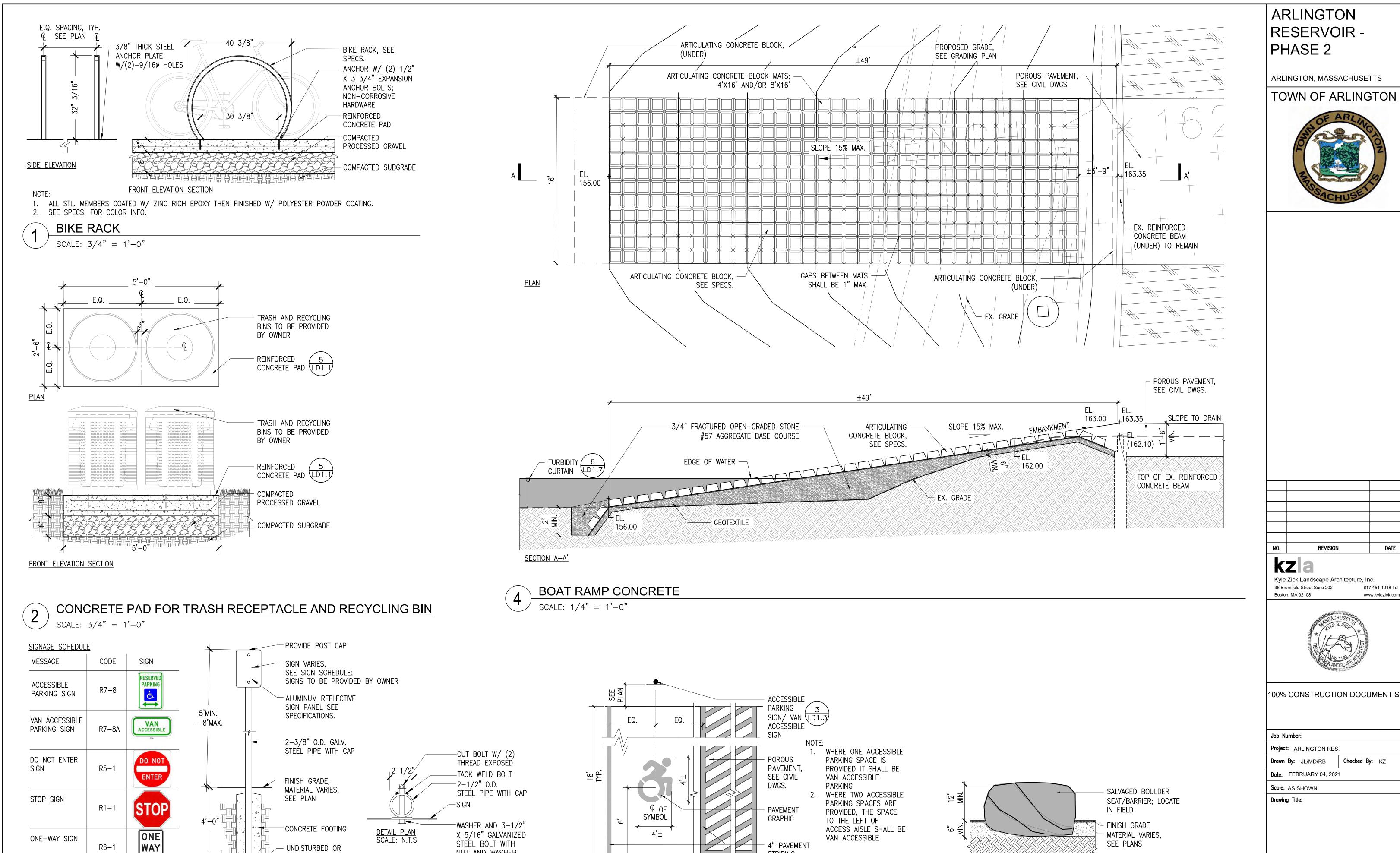
DATE

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DETAILS

LD1.2

ARMORED SLOPE AT BEACH SCALE: 3/16" = 1'-0"



STRIPING

TYP.

MIN.

PAVEMENT MARKING - ACCESSIBILITY

MIN.

SCALE: N.T.S.

PLAN

-SEE SPECS.,

NUT AND WASHER

COMPACTED

SUBGRADE

<u>SECTION</u>

**ROAD SIGNAGE** 

SCALE: 3/4" = 1'-0"

RESERVOIR -



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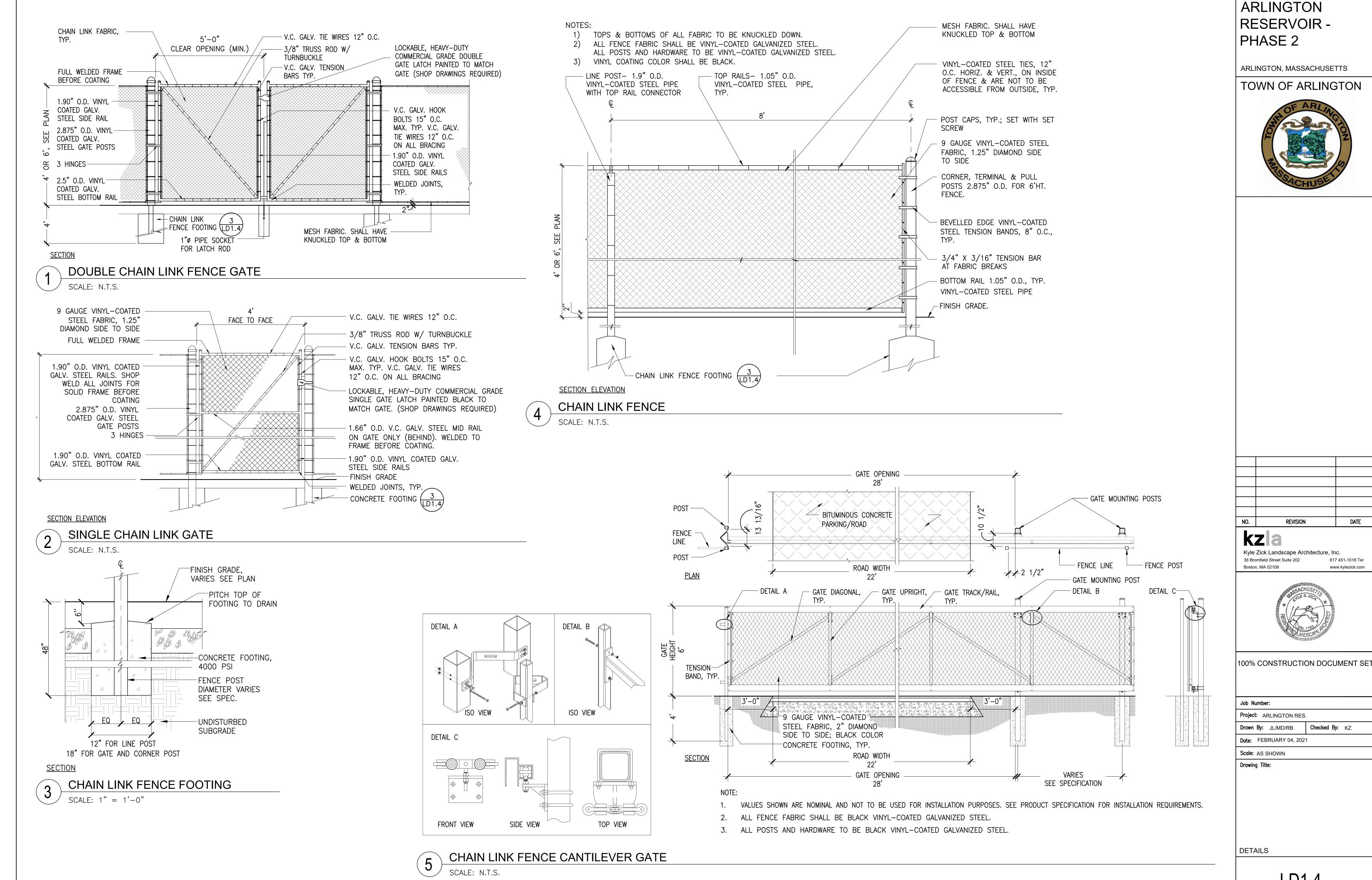
DETAILS

COMPACTED SUBGRADE

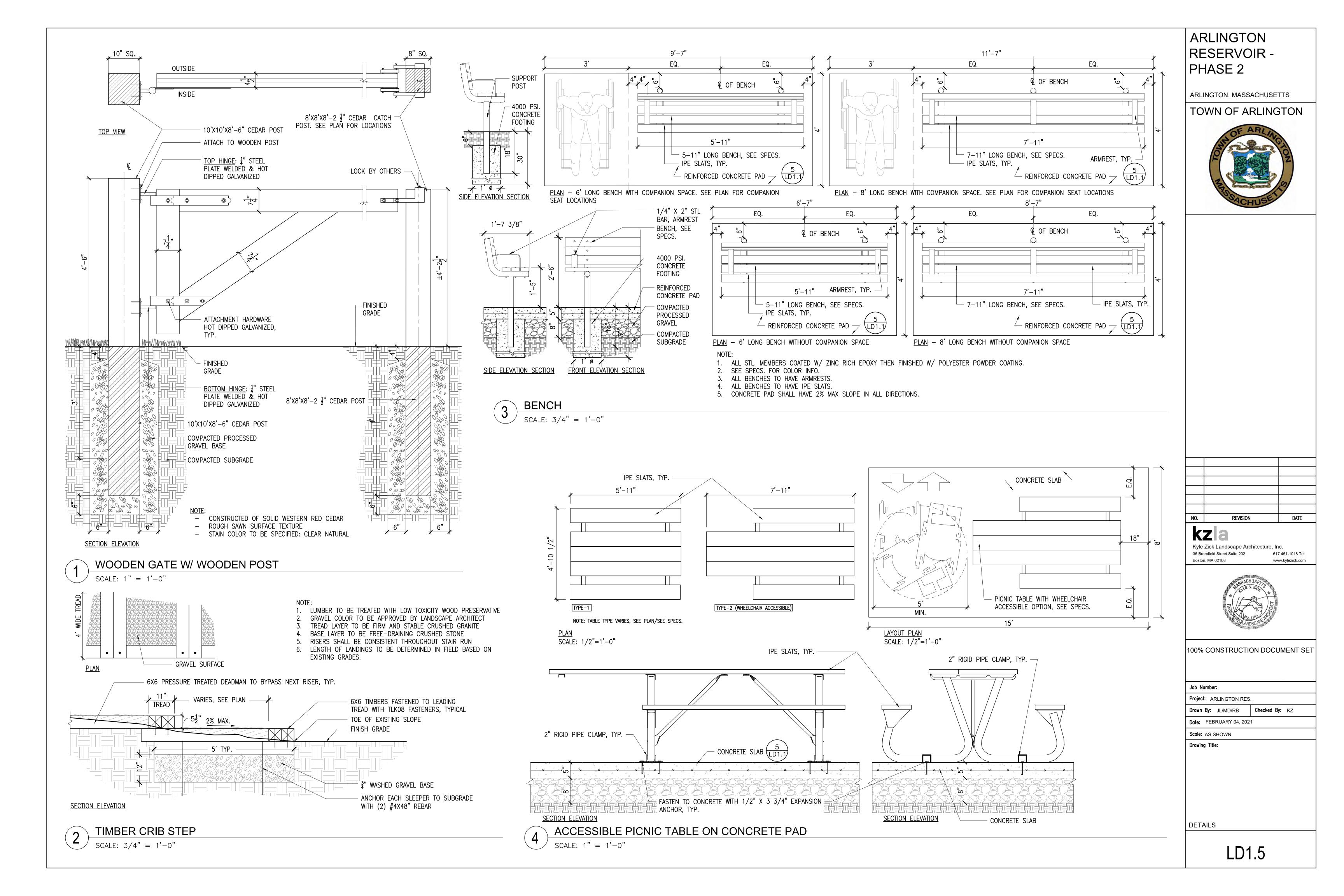
SECTION ELEVATION

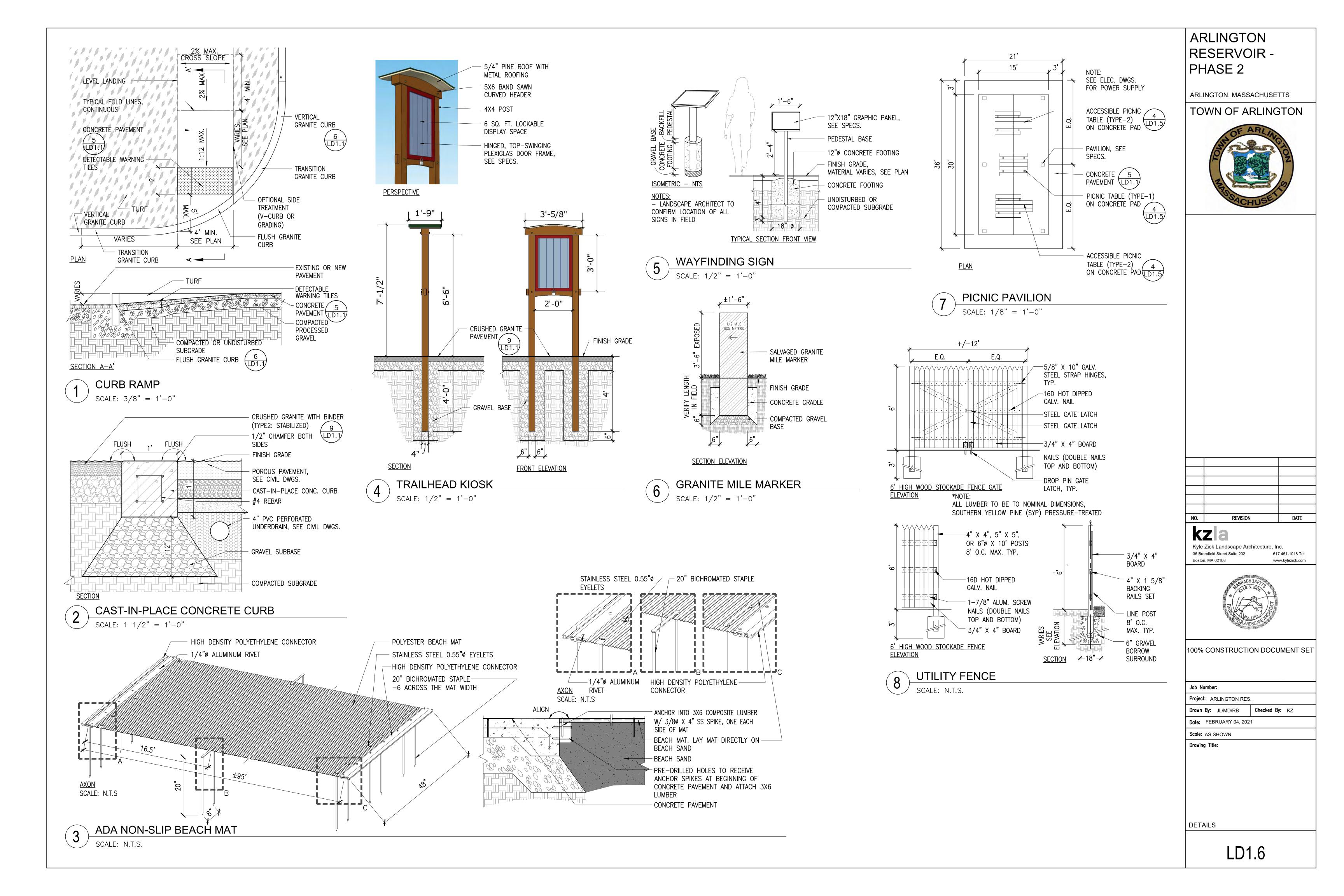
PLACED BOULDER

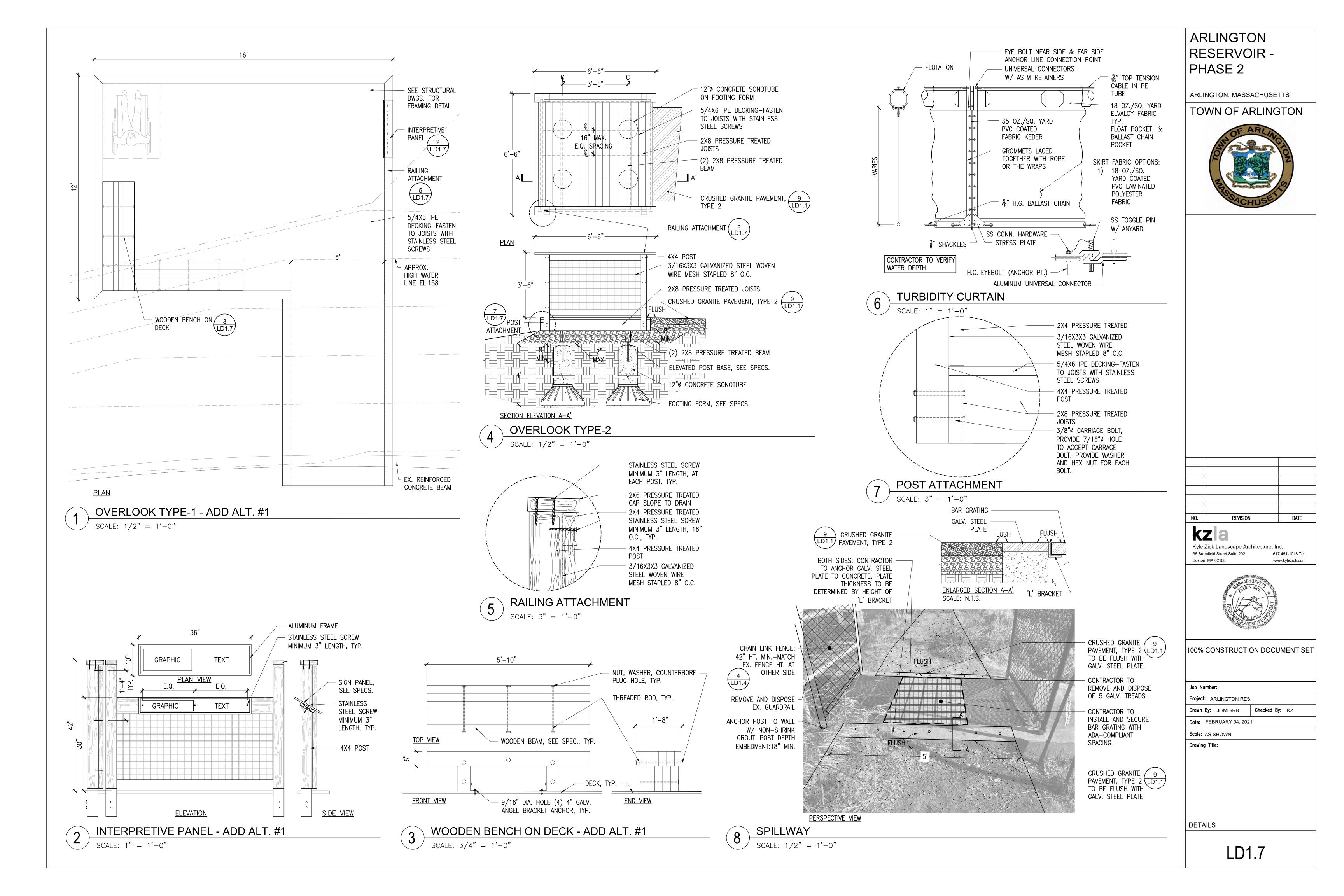
SCALE: 3/4" = 1'-0"

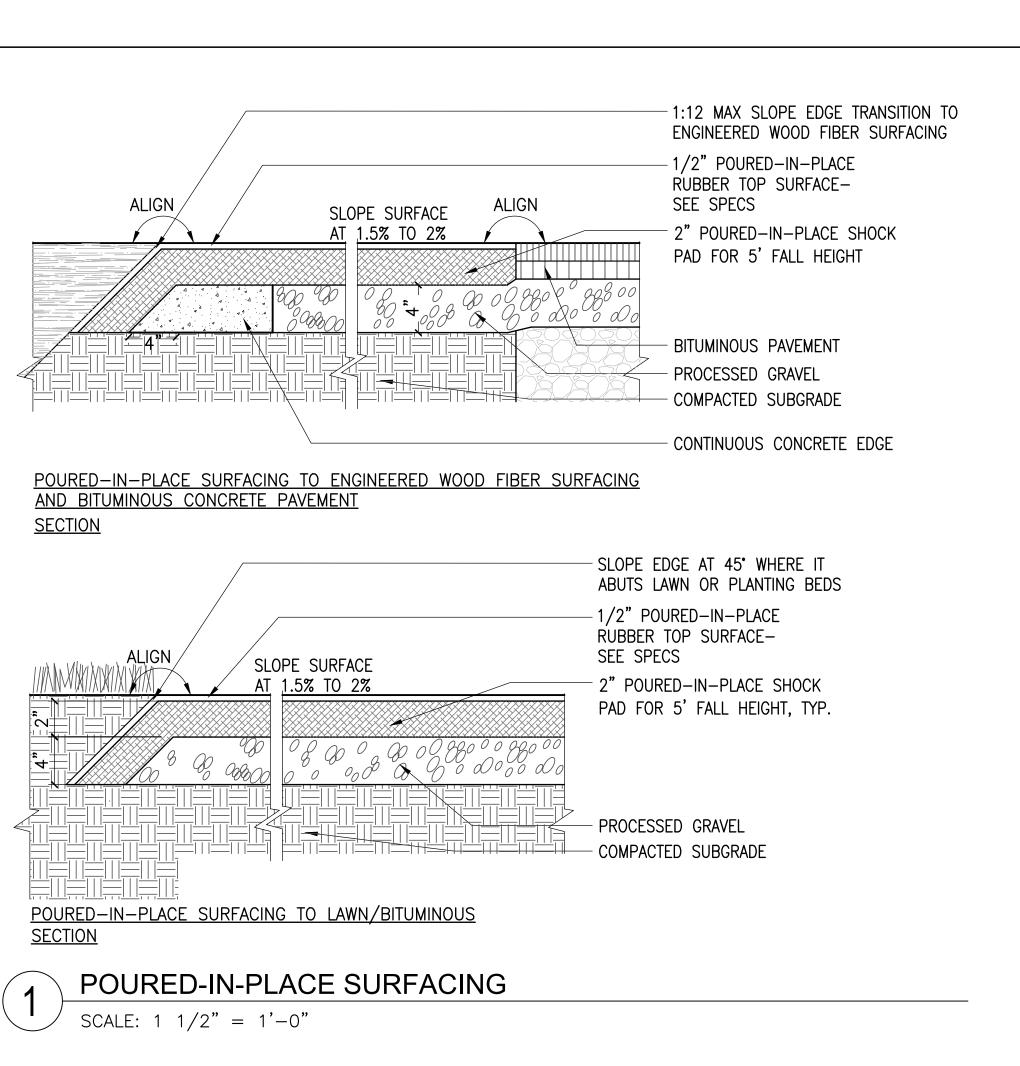


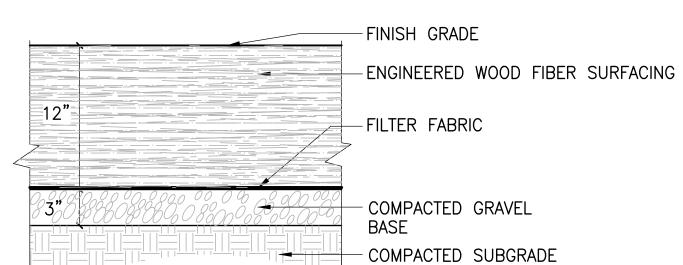










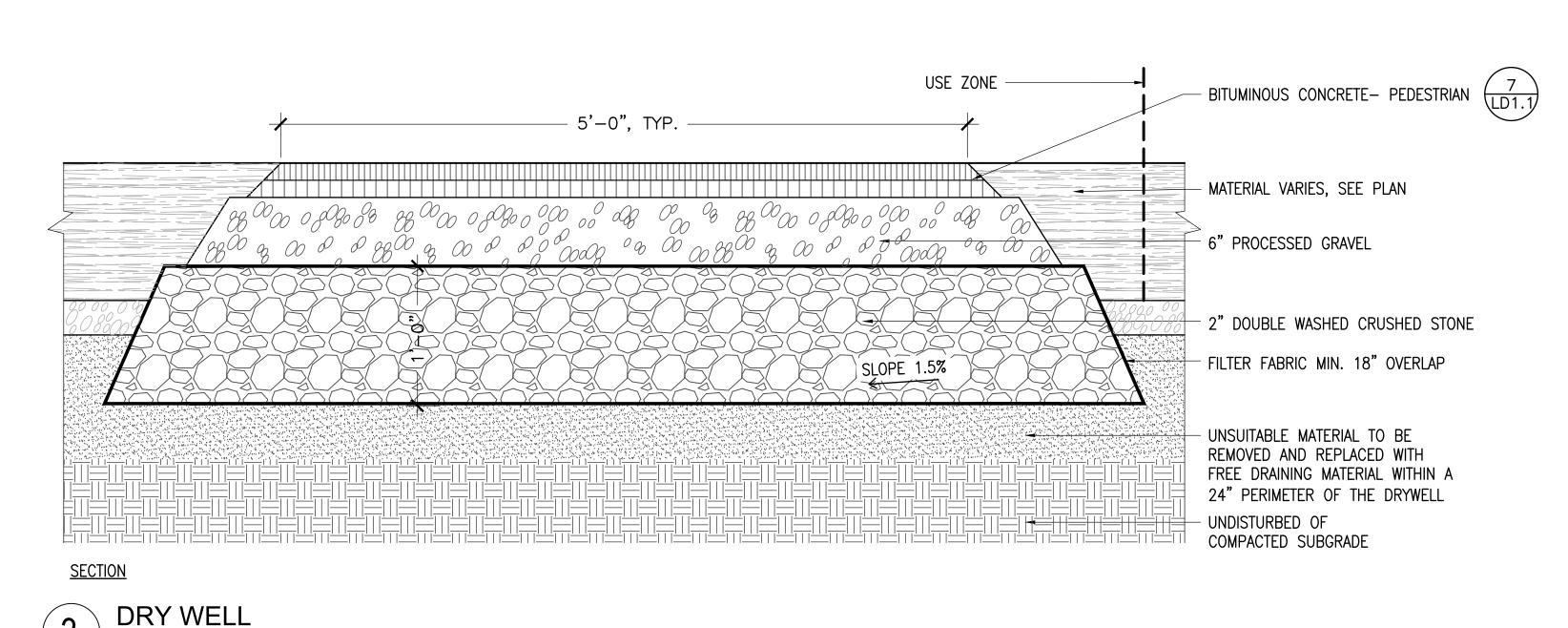


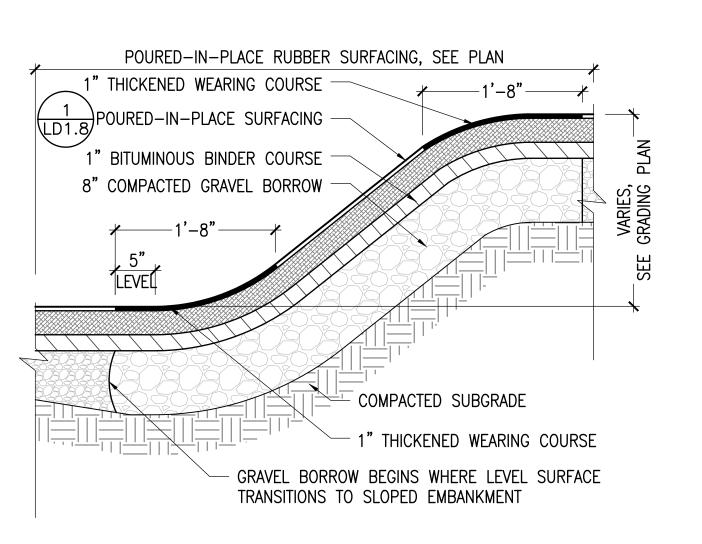
TYPICAL SECTION

# ENGINEERED WOOD FIBER SURFACING

SCALE:  $1 \frac{1}{2} = 1'-0''$ 

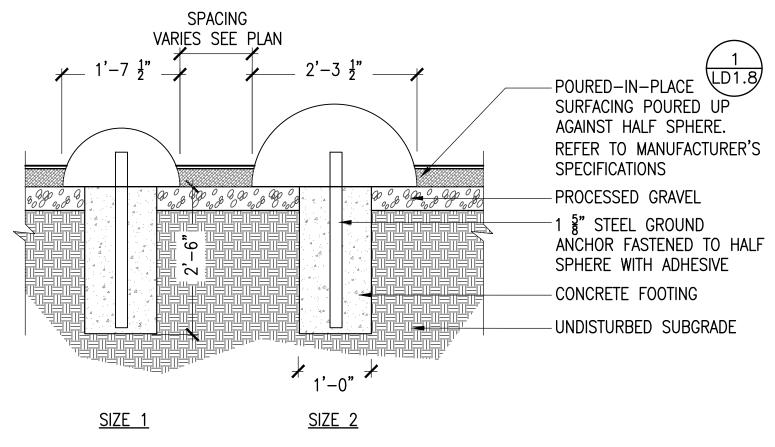
SCALE:  $1 \frac{1}{2} = 1'-0"$ 



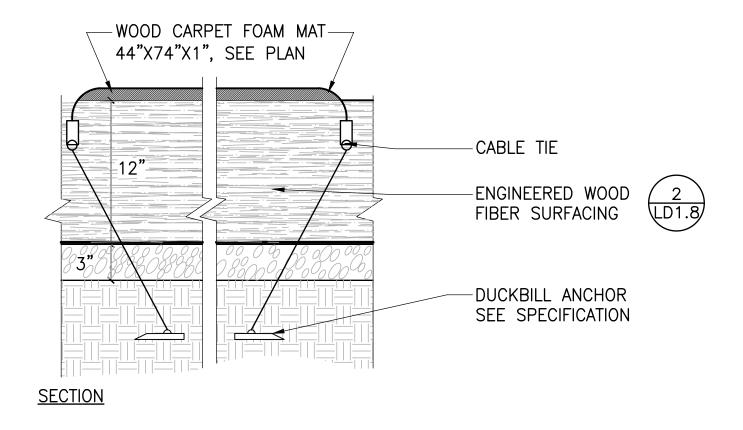


# EMBANKMENT MOUND

 $\int SCALE: 1" = 1'-0"$ 



# SCALE: 3/4" = 1'-0"

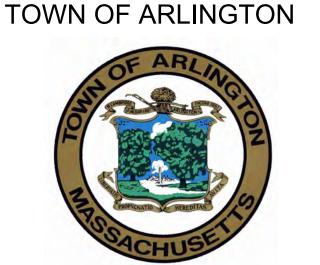


# 6 WOODCARPET FOAM MAT WITH ANCHOR KIT SCALE: 1 1/2" = 1'-0"

ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

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36 Bromfield Street Suite 202 617 45

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36 Bromfield Street Suite 202 617 451-1018 Tel

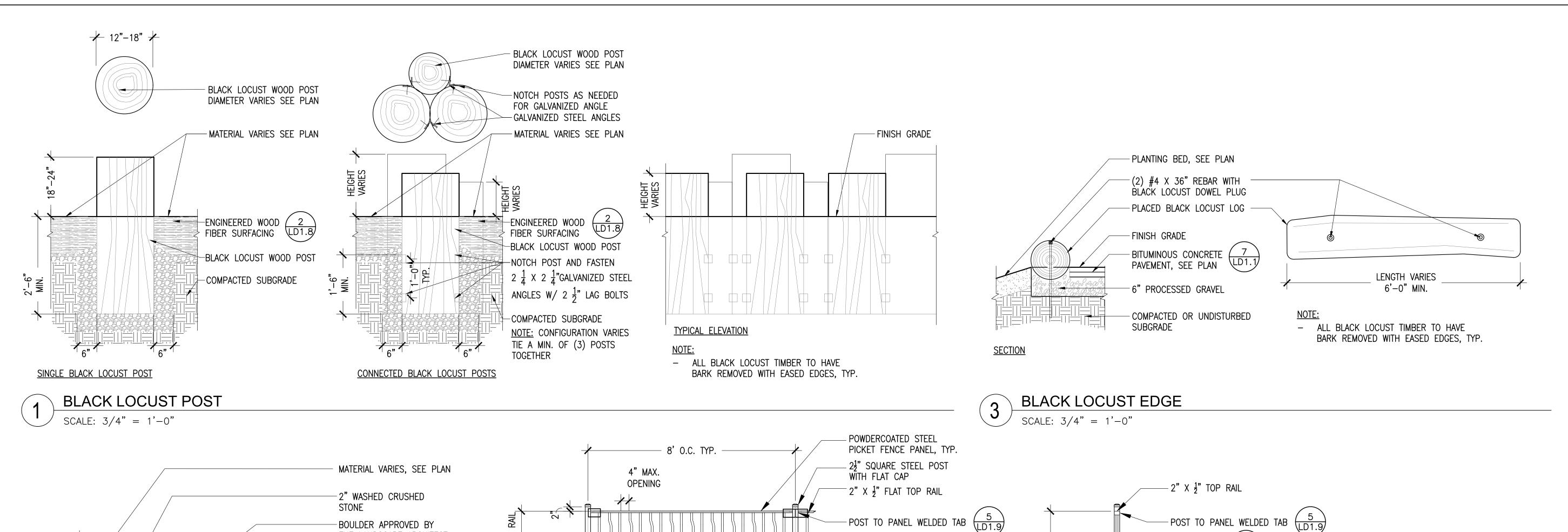
Boston, MA 02108 www.kylezick.com

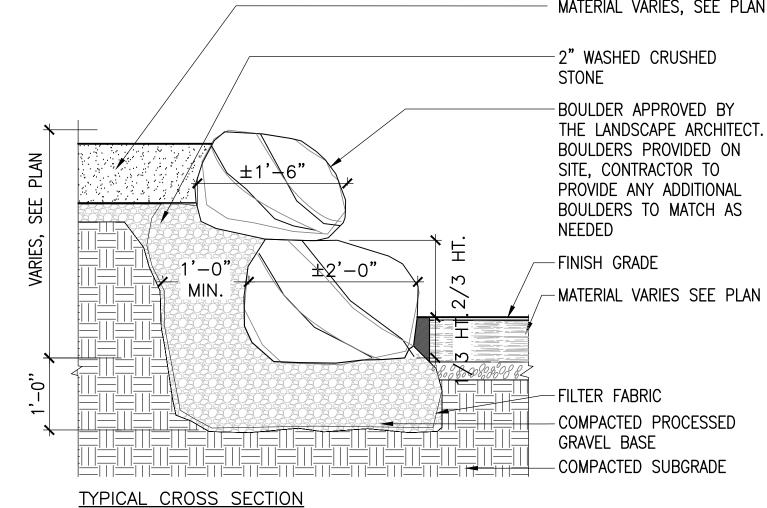


100% CONSTRUCTION DOCUMENT SET

Job Number:			
Project: ARLINGTON RES			
Drawn By: JL/MD/RB	Checked By:	KZ	
Date: FEBRUARY 04, 202	1		
Scale: AS SHOWN			
Drawing Title:			

PLAYGROUND DETAILS



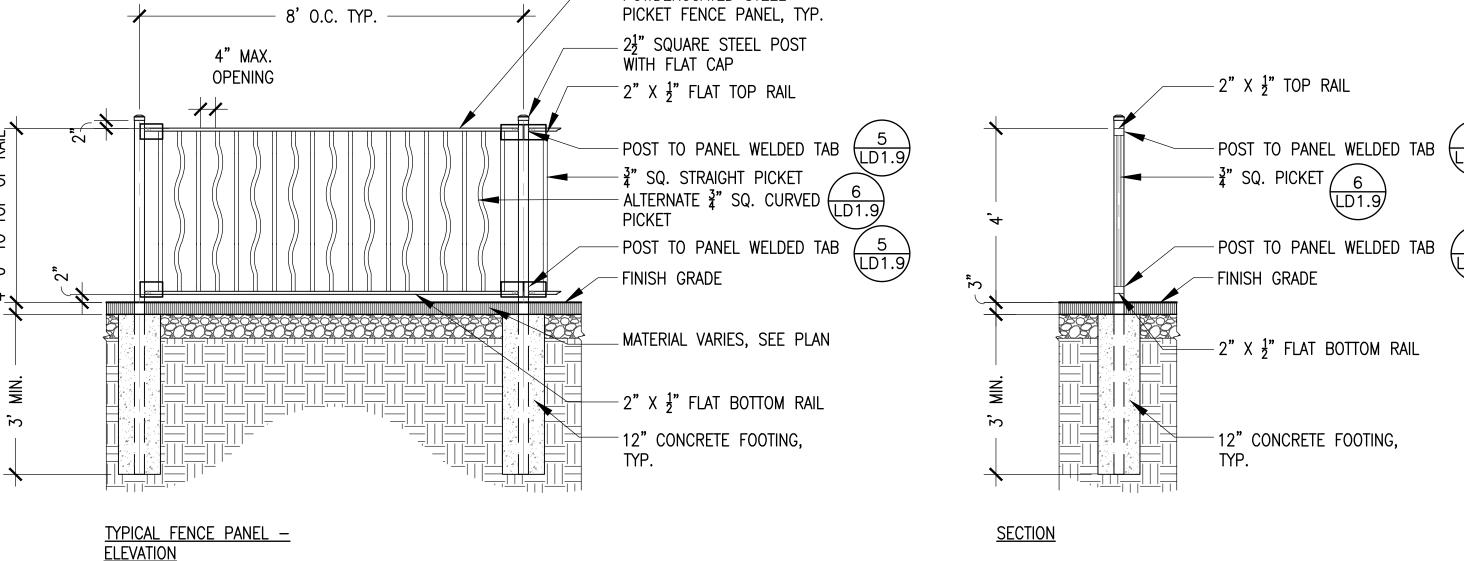


- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONSTRUCT A SAMPLE WALL SECTION FOR APPROVAL BY THE LANDSCAPE ARCHITECT DEMONSTRATING CONSTRUCTION TECHNIQUE AND TYPE OF BOULDER USED. - BITUMINOUS CONCRETE TO BE INSTALLED AS SHOWN ON PLANS WITH CLEAN EDGE, AND DOES NOT INFILL GAPS BETWEEN BOULDERS. VOIDS BETWEEN BITUMINOUS CONCRETE PATHWAY AND BOULDERS ARE NOT TO EXCEED 3" AND ARE TO BE

# **BOULDER RETAINING WALL**

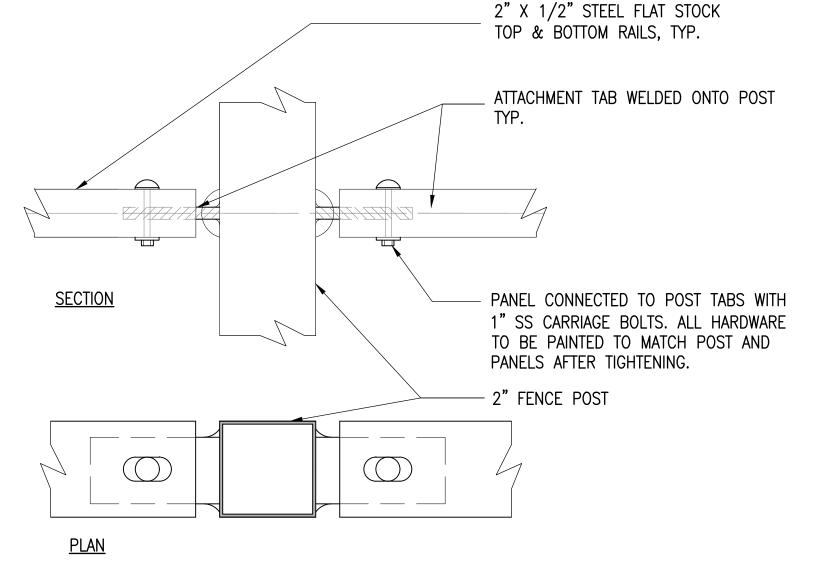
FILLED WITH 3/8" CRUSHED AGGREGATE.

SCALE: 3/4" = 1'-0"

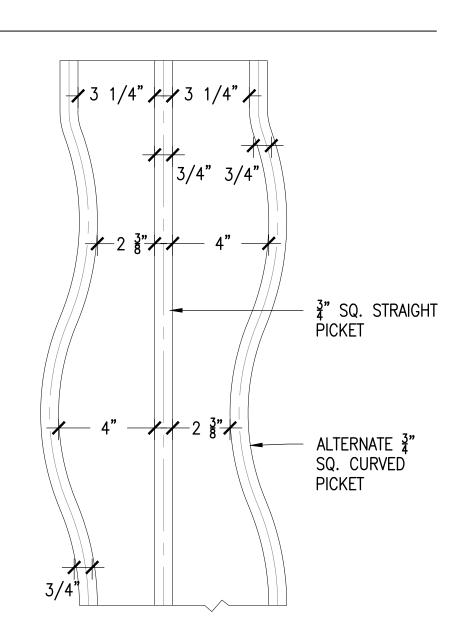


ORNAMENTAL FENCE PANEL - ADD ALT #6

SCALE: 1/2" = 1'-0"



ORNAMENTAL FENCE CONNECTION - ADD ALT #6 SCALE: 6" = 1'-0"



ORNAMENTAL FENCE PICKET - ADD ALT #6 SCALE: 3" = 1'-0"

# ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

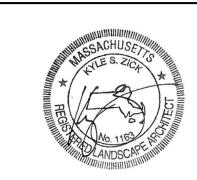
TOWN OF ARLINGTON



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kzla

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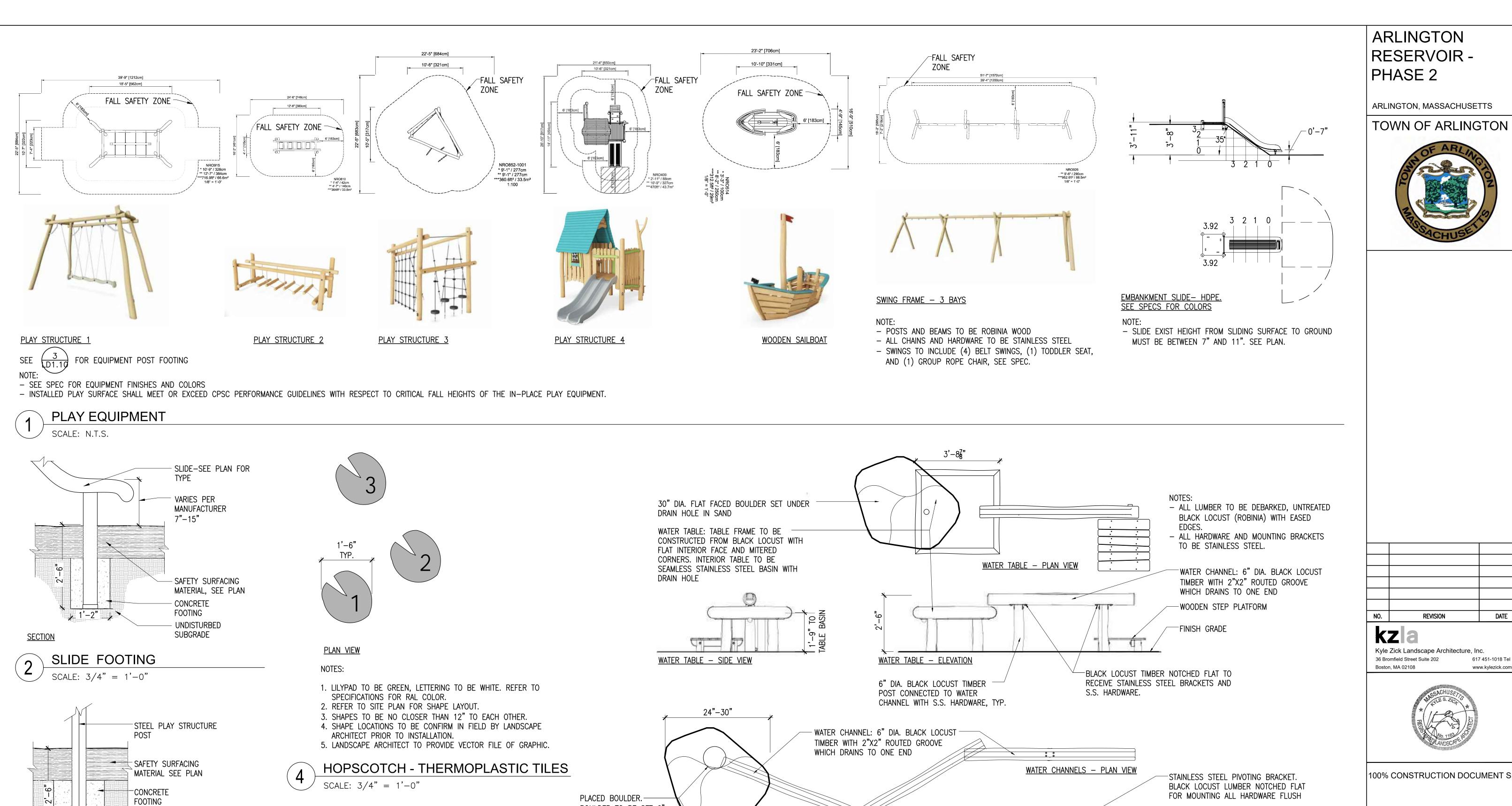
Job Nur	nber:
Projects	ADUNOTONI

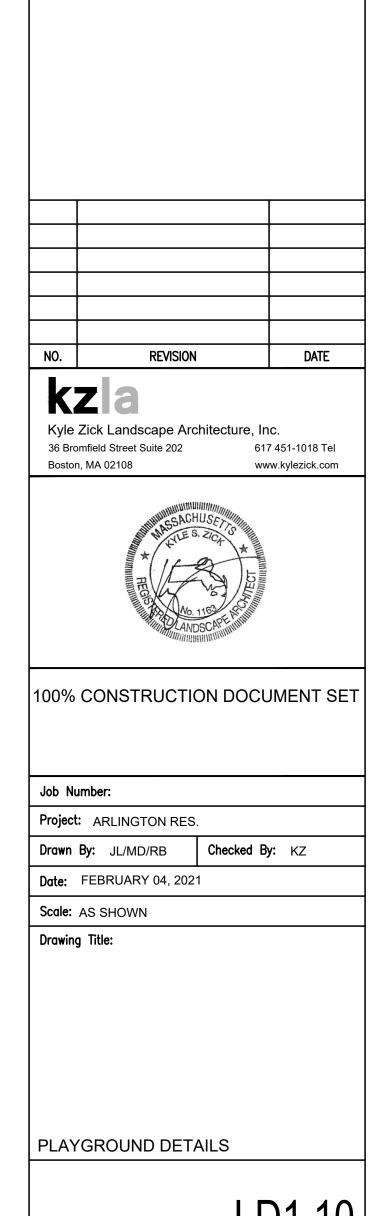
Project: ARLINGTON RES. Drawn By: JL/MD/RB Checked By: KZ

Date: FEBRUARY 04, 2021 Scale: AS SHOWN

Drawing Title:

PLAYGROUND DETAILS





-SEE PLAN FOR

SURFACE MATERIAL

PROCESSED GRAVEL

COMPACTED SUBGRADE

SAND & WATER PLAY SCALE: 1/2" = 1'-0"

BOULDER TO BE SET 6"

SURFACE NO LESS THAN

12" DIAMETER X 1" DEEP

CHANNEL GROOVE. TOP OF

BELOW BOTTOM OF

BOULDER TO HAVE CHISELED CONCAVE

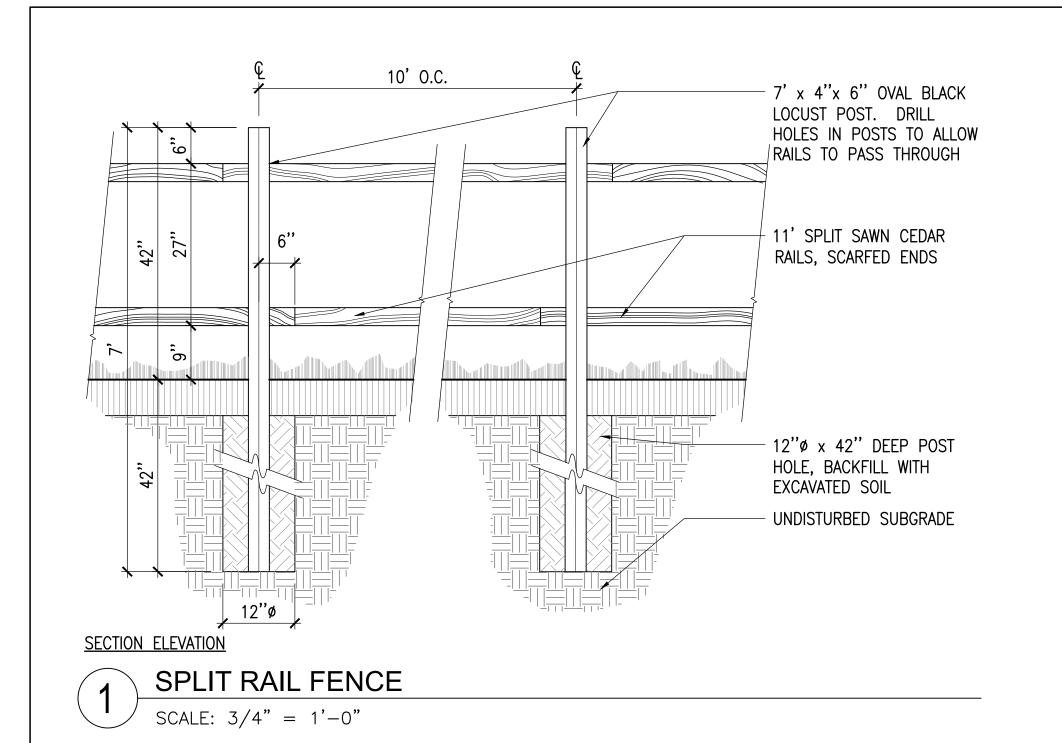
UNDISTURBED

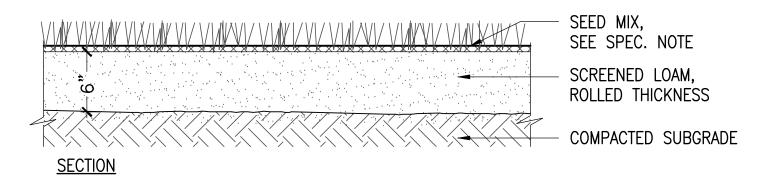
SUBGRADE

**EQUIPMENT POST FOOTING** 

SCALE: 3/4" = 1'-0"

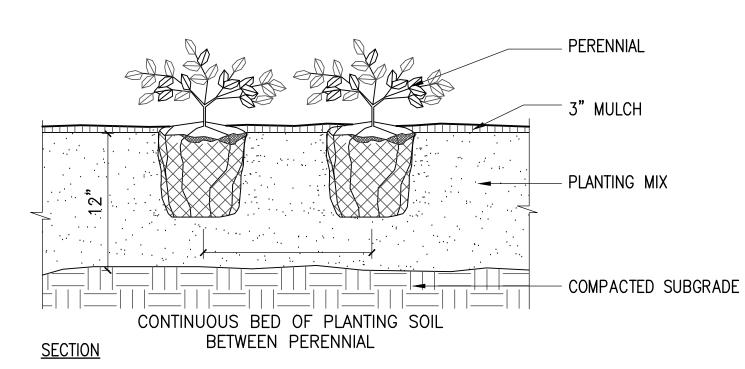
**SECTION** 





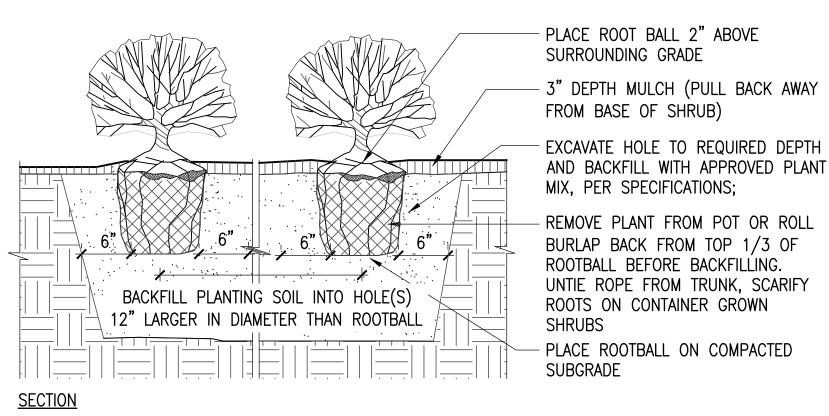
SEEDING

SCALE: 1 1/2" = 1'-0"

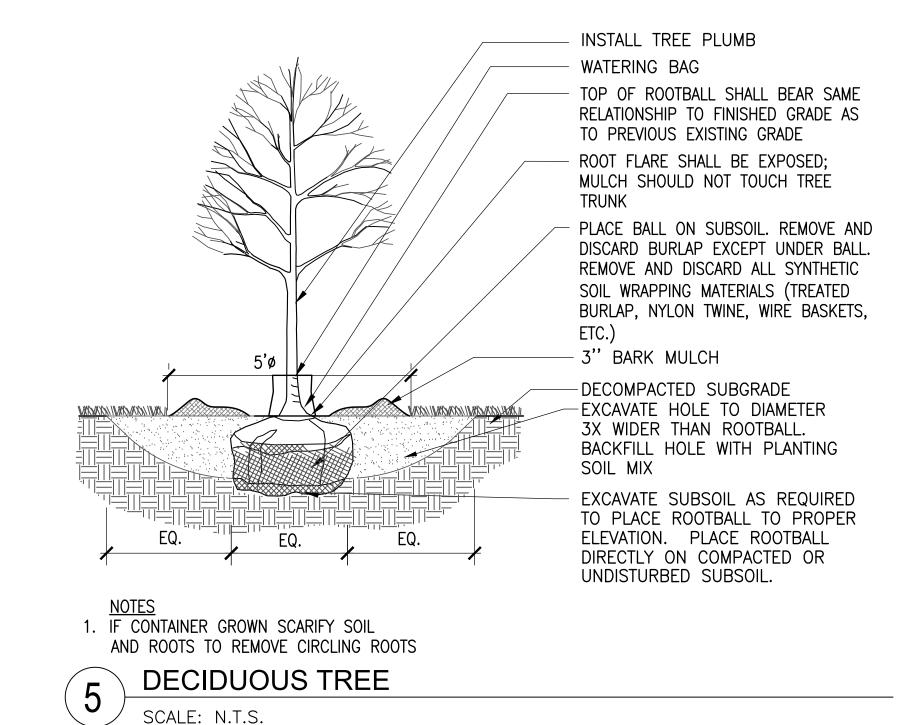


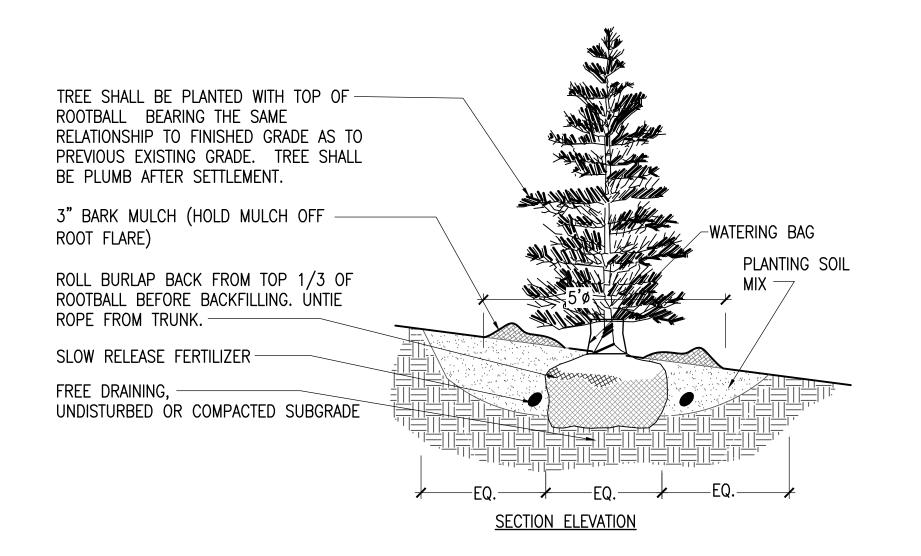
3 PERENNIAL PLANTING

SCALE: 1 1/2" = 1'-0"

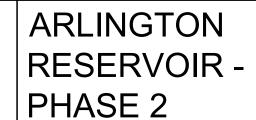


SHRUB PLANTING









ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



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100% CONSTRUCTION DOCUMENT SET

Job Number:

Project: ARLINGTON RES.

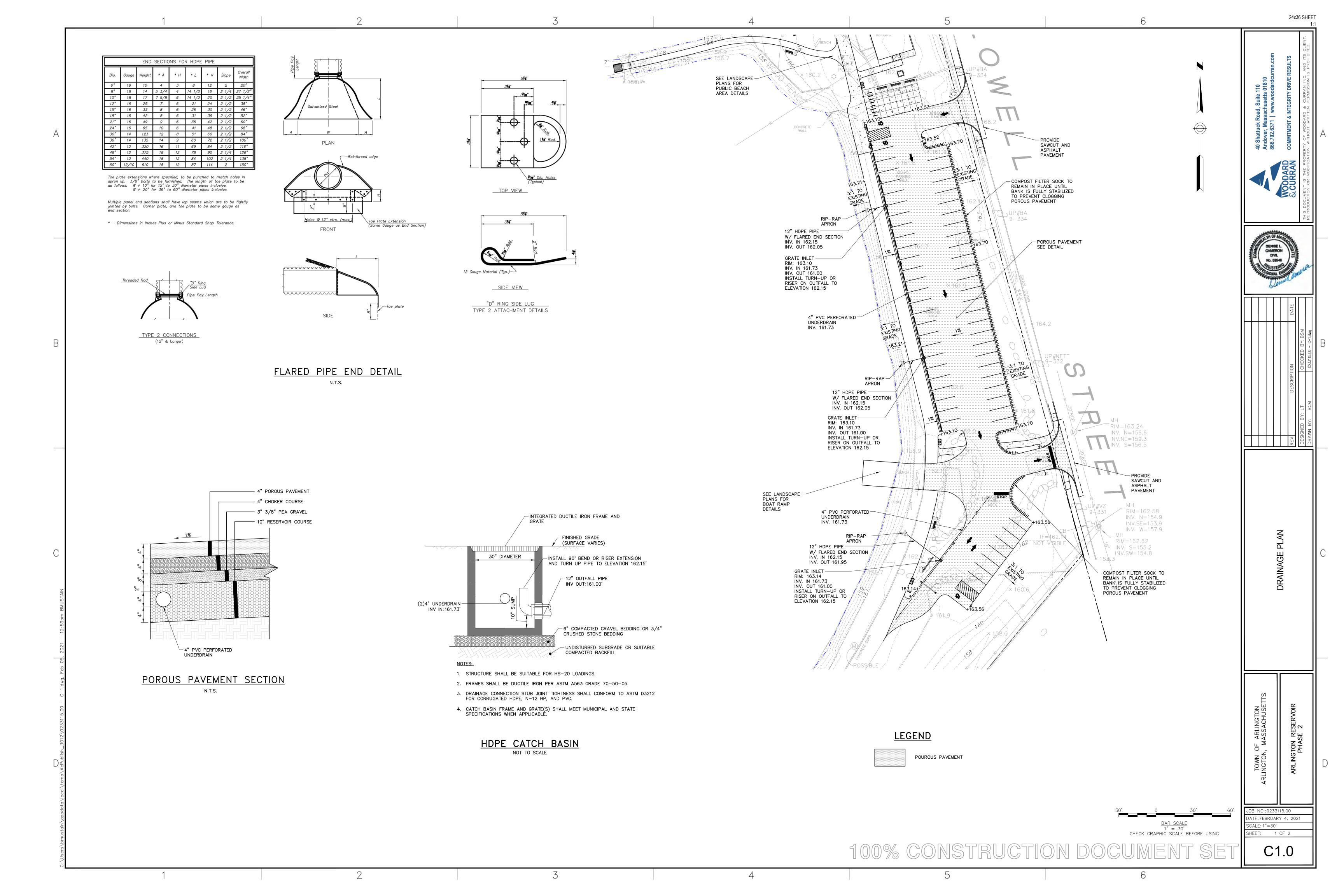
Drawn By: JL/MD/RB Checked By: KZ

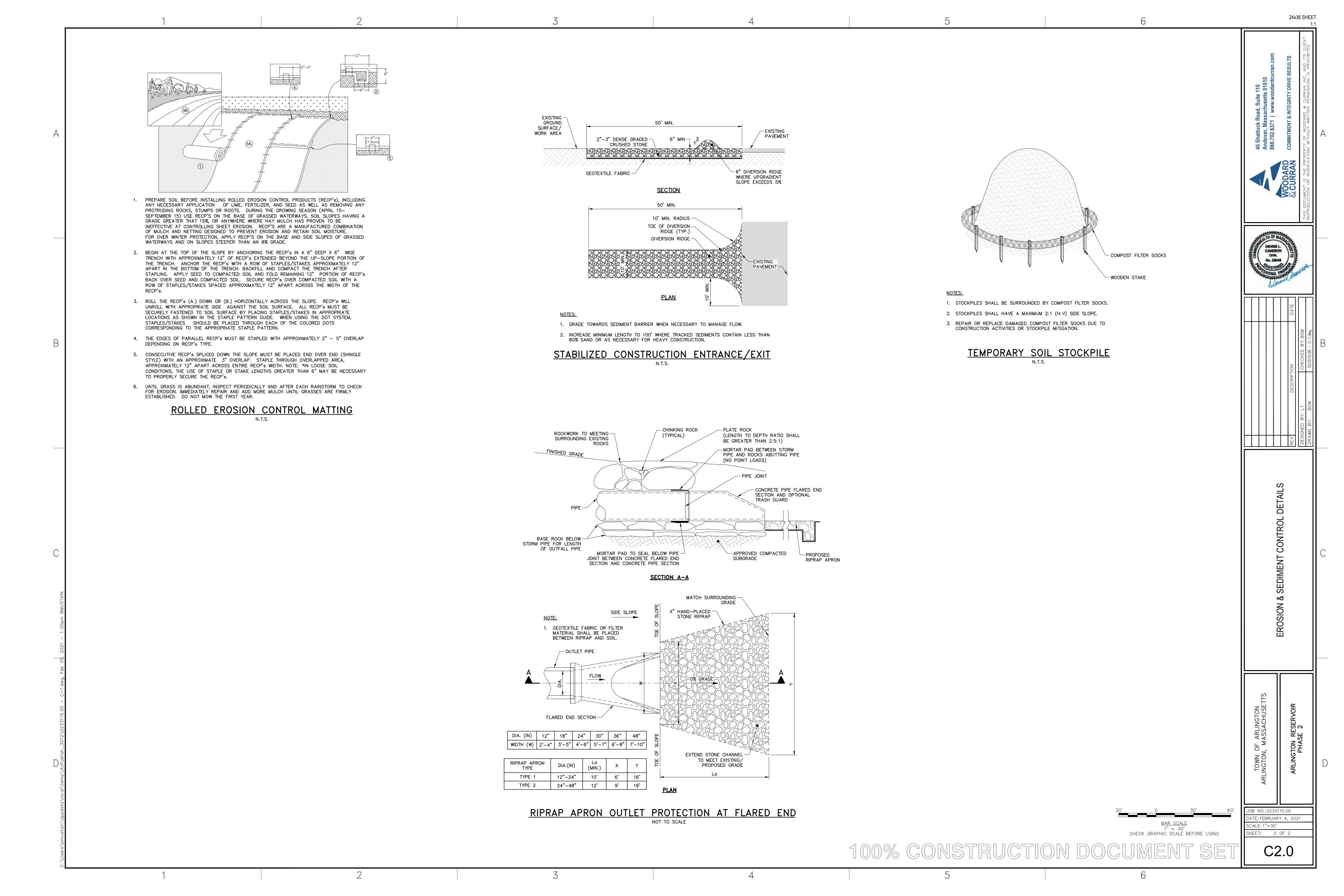
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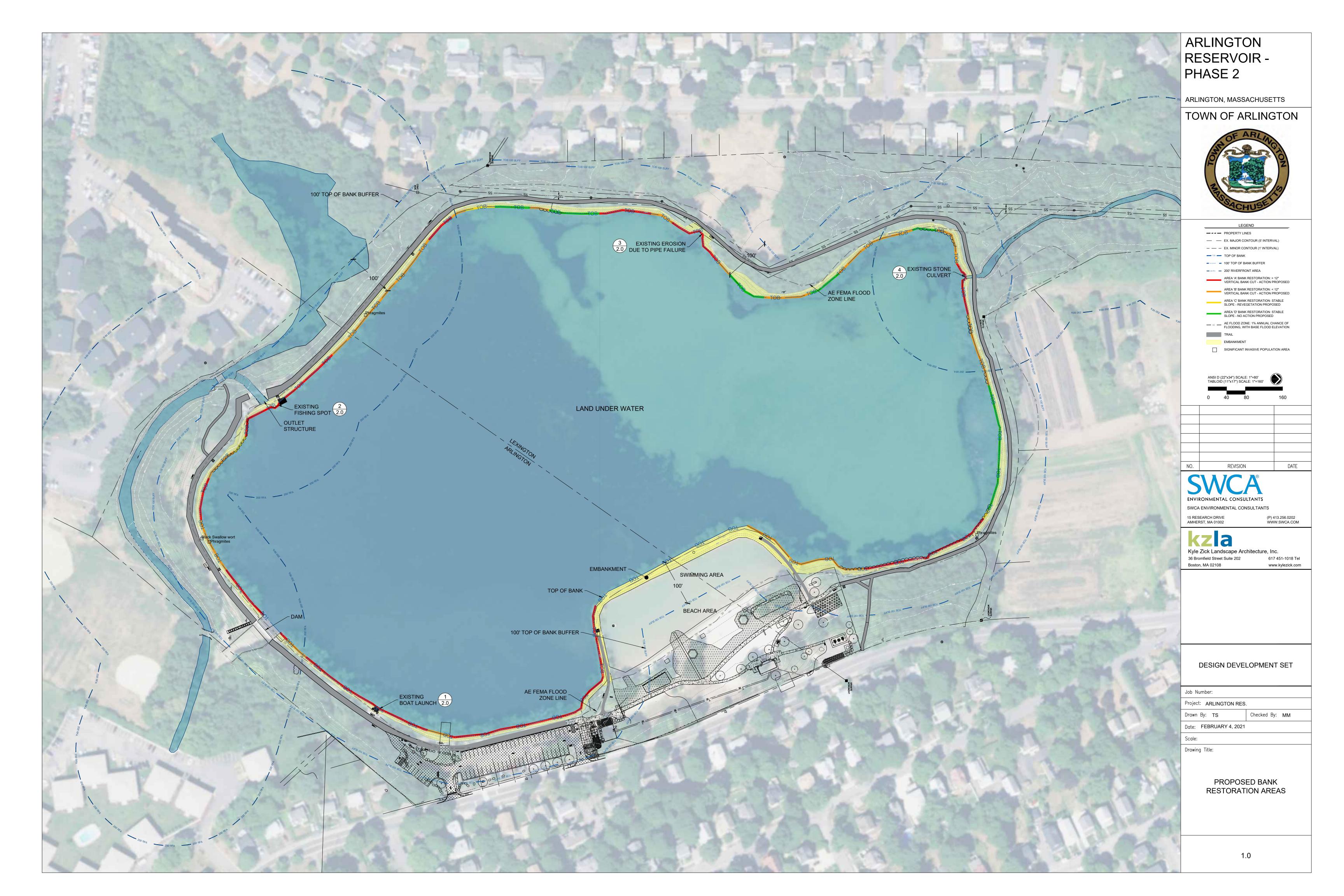
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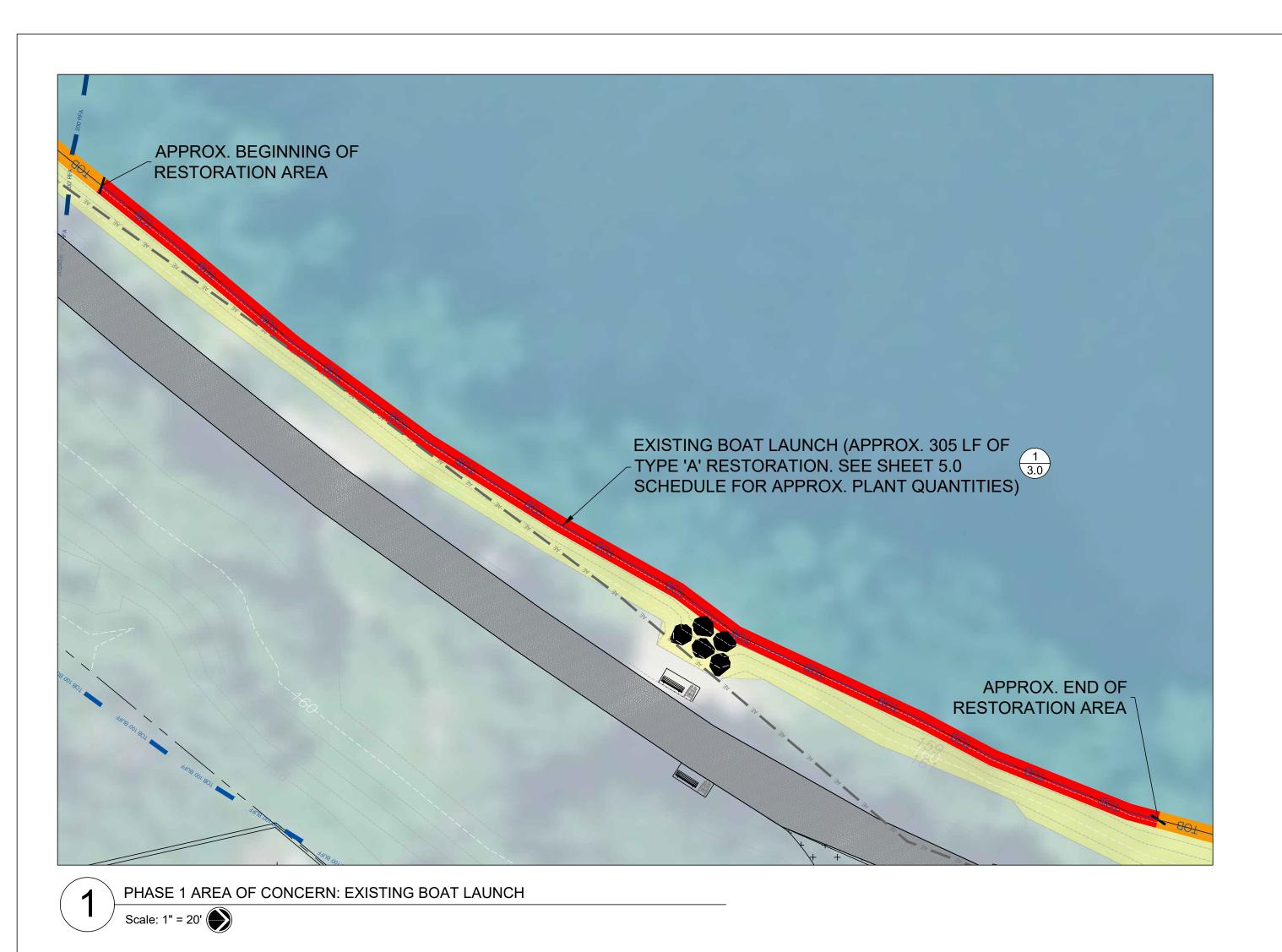
Drawing Title:

PLANTING DETAILS

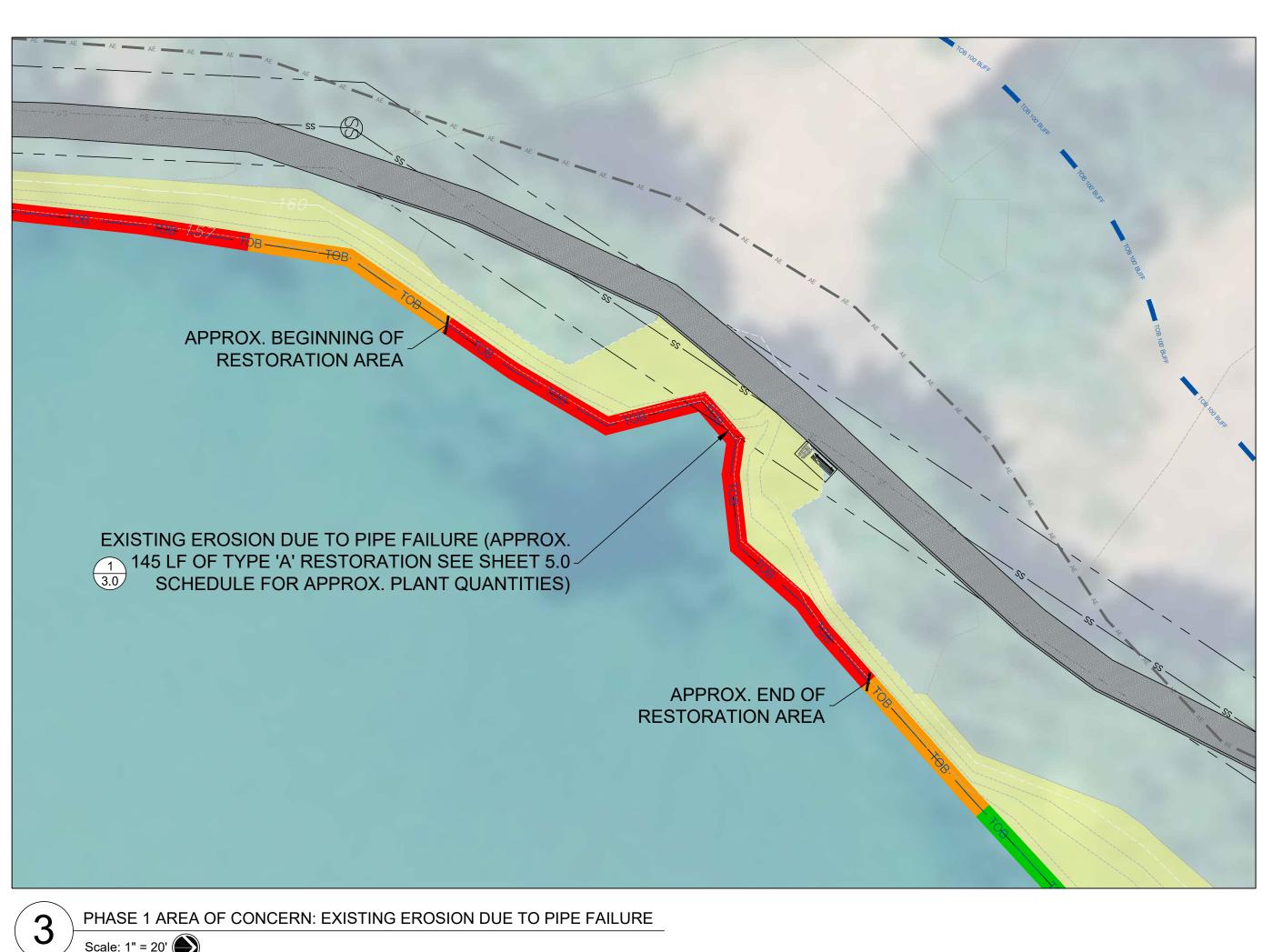




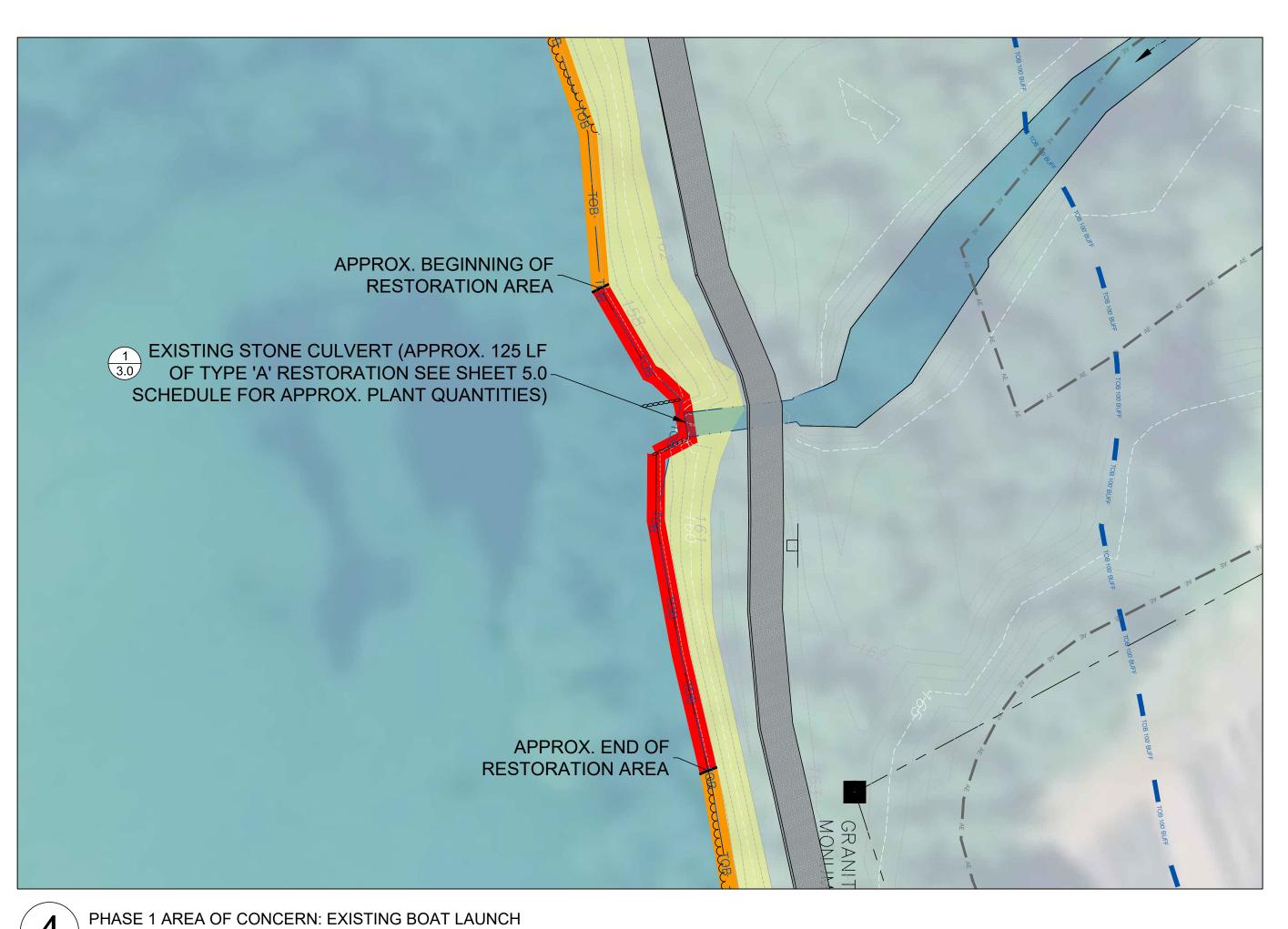








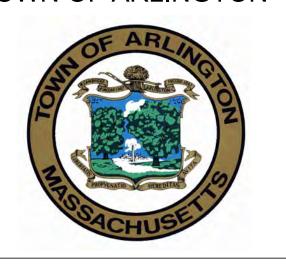
Scale: 1" = 20'



ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

### TOWN OF ARLINGTON



--- PROPERTY LINES — EX. MAJOR CONTOUR (5' INTERVAL) — — EX. MINOR CONTOUR (1' INTERVAL) ■ TOP OF BANK ■ 100' TOP OF BANK BUFFER AREA 'A' BANK RESTORATION: > 12"
VERTICAL BANK CUT - ACTION PROPOSED AREA 'B' BANK RESTORATION: < 12" VERTICAL BANK CUT - ACTION PROPOSED AREA 'C' BANK RESTORATION: STABLE AREA 'D' BANK RESTORATION: STABLE AE FLOOD ZONE: 1% ANNUAL CHANCE OF FLOODING, WITH BASE FLOOD ELEVATION

SIGNIFICANT INVASIVE POPULATION AREA

SWCA ENVIRONMENTAL CONSULTANTS 15 RESEARCH DRIVE AMHERST, MA 01002 (P) 413.256.0202 WWW.SWCA.COM

36 Bromfield Street Suite 202 617 451-1018 Tel www.kylezick.com

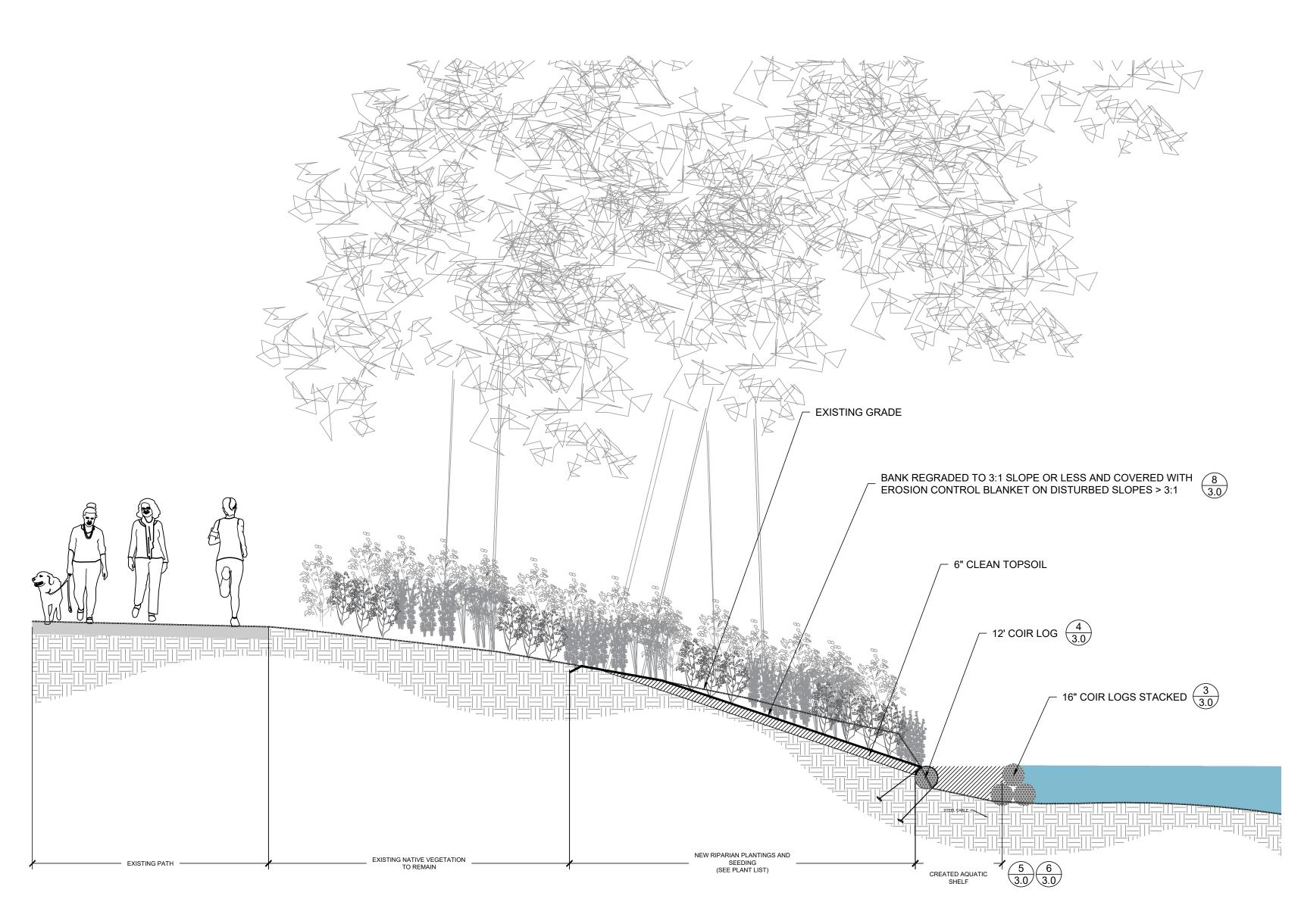
DESIGN DEVELOPMENT SET

Project: ARLINGTON RES. Checked By: MM Date: FEBRUARY 4, 2021

Drawing Title:

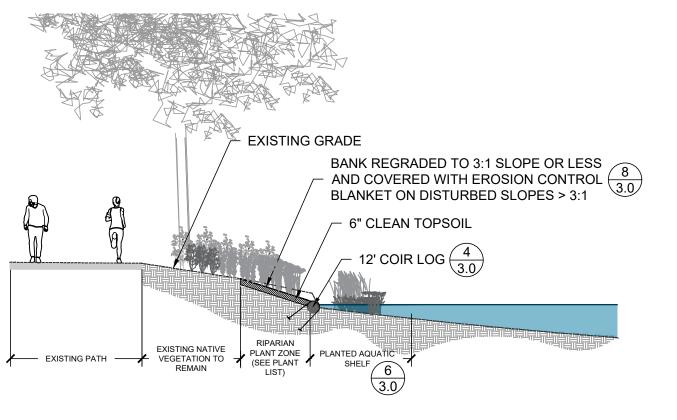
PROPOSED AREAS OF PHASE 2

BANK RESTORATION



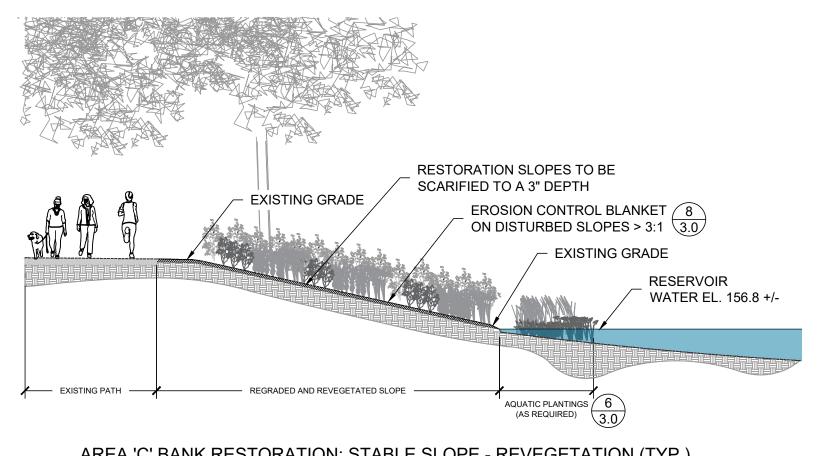
AREA 'A' BANK RESTORATION: > 12" VERTICAL BANK CUT (TYP.)

Scale: NTS



AREA 'B' BANK RESTORATION: < 12" VERTICAL BANK CUT (TYP.)
(NOT IN CONTRACT. FOR REFERENCE ONLY)

Scale: NTS



AREA 'C' BANK RESTORATION: STABLE SLOPE - REVEGETATION (TYP.)
(NOT IN CONTRACT. FOR REFERENCE ONLY)

Scale: NTS

# ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

### TOWN OF ARLINGTON



NO. REVISION DATE

ENVIRONMENTAL CONSULTANTS

SWCA ENVIRONMENTAL CONSULTANTS

15 RESEARCH DRIVE (P) 41

AMHERST, MA 01002 WWW

15 RESEARCH DRIVE (P) 413.256.0202 WWW.SWCA.COM

Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 617 451-1018 Tel
Boston, MA 02108 www.kylezick.com

### DESIGN DEVELOPMENT SET

Job Number:

Project: ARLINGTON RES.

Drawn By: TS Checked By: MM

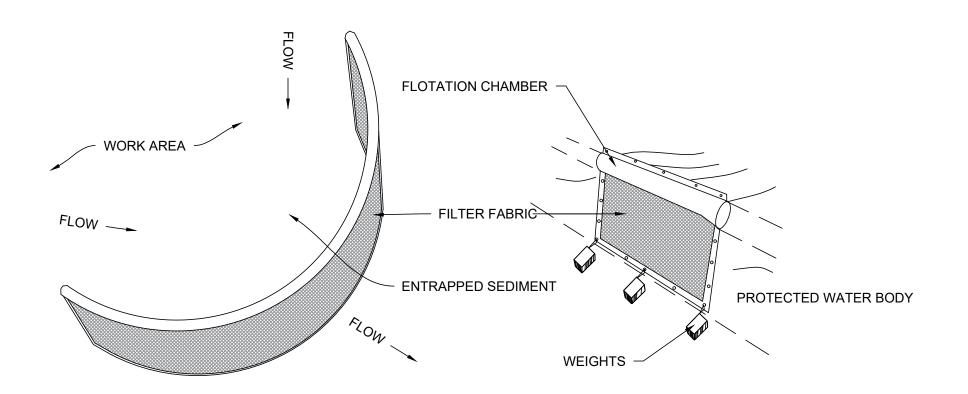
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Scale:

Drawing Title:

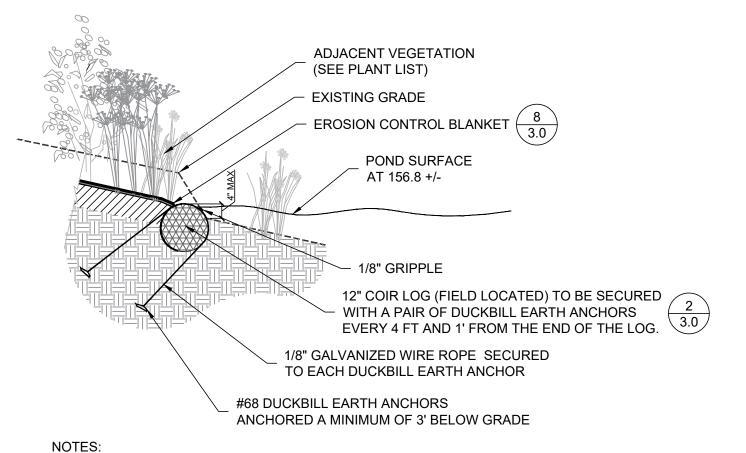
BANK RESTORATION

BANK RESTORATION SECTIONS



NOTE: TURBIDITY CURTAIN TO BE TEMPORARILY INSTALLED SURROUNDING ANY BANK OR BOAT RAMP WORK WHICH WILL DISTURB SOILS NEXT TO OPEN WATER. ONCE SUSPENDED SEDIMENT HAS CLEARED, THE TURBIDITY CURTAIN MAY BE REMOVED.

TURBIDITY CURTAIN DETAIL FOR IN-WATER SEDIMENT CONTROL (TYP.) Scale: NTS



1. LOOP A 1/8" ZINC COATED WIRE THROUGH THE LOOP ENDS OF EACH DUCKBILL EARTH ANCHOR AND USE A 1/8" GRIPPLE WIRE TO SECURE THE LOOP. TIGHTEN GRIPPLE LOOP TO ENSURE A TIGHT FIT. 2. COIR LOGS MAY BE STACKED ON TOP OF EACH OTHER IN AREAS WITH A VERTICAL ERODED FACE OF OVER 2'-0" AS DIRECTED BY THE PROJECT DESIGNER.

PROTECTED RESOURCE AREA

UNDISTURBED SOIL

BIODEGRADABLE MATERIAL

COIR LOG INSTALLATION (TYP.) Scale: NTS

2"X2"X3' WOOD STAKES, EVERY

AREA OF DISTURBANCE -

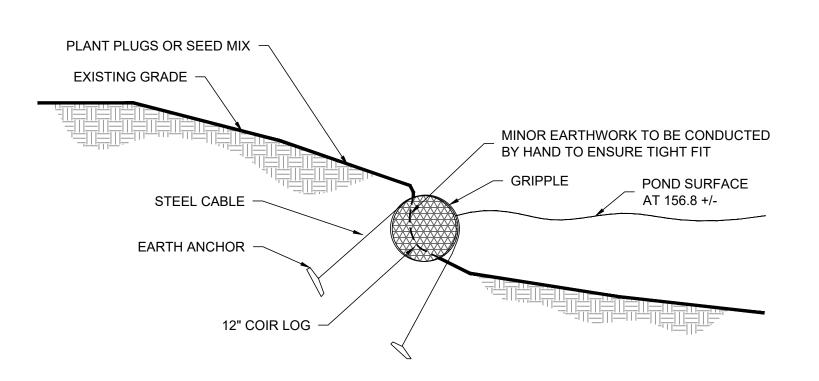
5' O.C. PER STRAW WATTLE

SET 3" BELOW GRADE

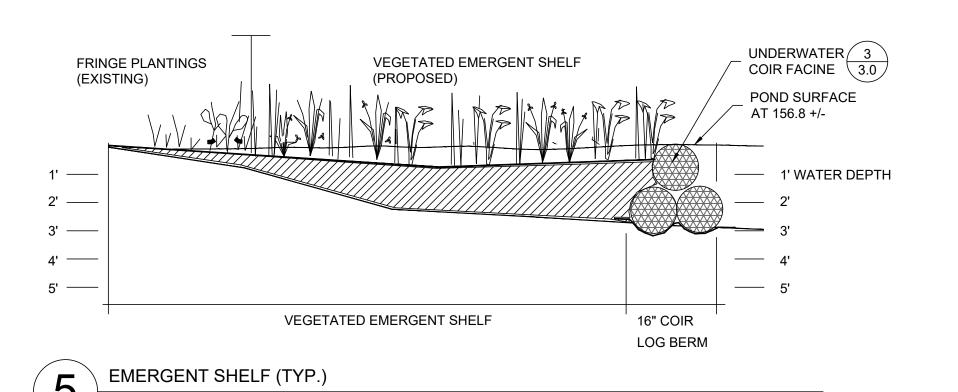
Scale: NTS

STRAW WATTLE EROSION CONTROL

STRAW WATTLES TO BE



COIR FASCINE INSTALLATION (TYP.) Scale: NTS



OVERLAP COIR MAT 8" MINIMUM TOE FABRIC INTO SLOPE A MINIMUM 2'-0" SLOPE STAPLE EVERY 18" O.C. IN THE MIDDLE OF THE FABRIC 70% STRAW, 30% COIR EROSION CONTROL FABRIC ON SIDE SLOPES. TOED INTO SOIL (MIN 2' ON THE TOP AND BOTTOM) AND STAPLED EVERY STAPLE EVERY 12" ON THE EDGES AND 18" O.C. IN THE MIDDLE 12" ON EDGE 6" METAL TURF STAPLE TOE FABRIC INTO SOIL A MIN. OF 2'-0" STRAW SHALL BE CLEAN AND FREE OF VIABLE SEED
 WATTLE CASING SHALL BE BURLAP OR SIMILAR

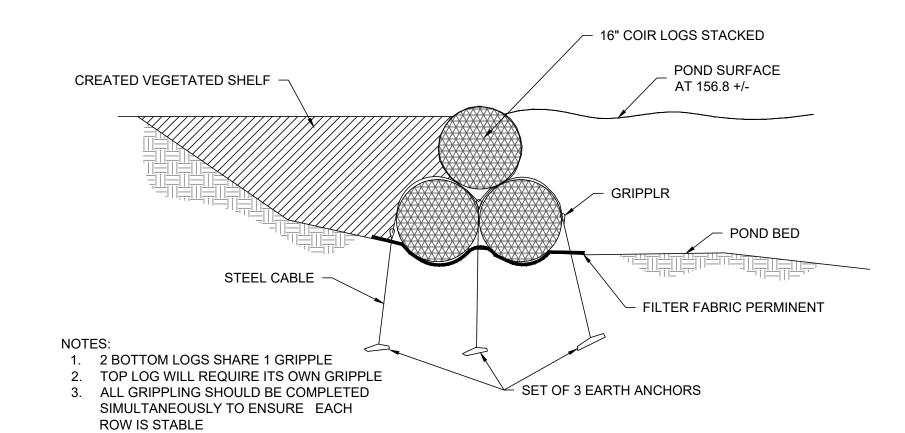
Scale: NTS

BIODEGRADABLE EROSION CONTROL FABRIC SLOPE STABILIZATION DETAIL Scale: NTS

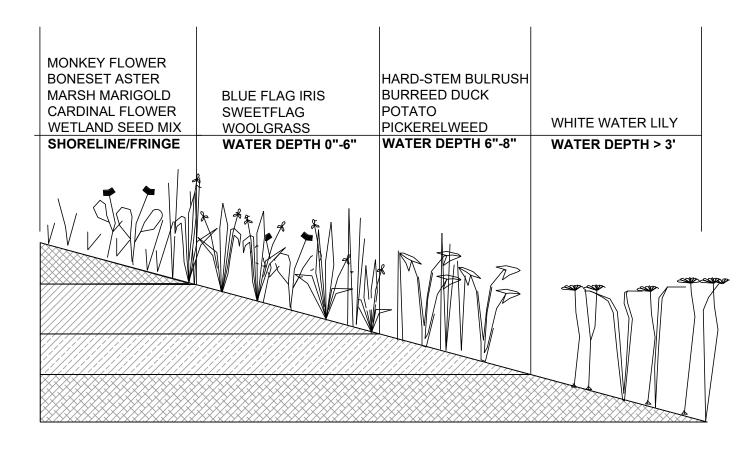
EROSION CONTROL FABRIC NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS TO ENSURE THAT THE EROSION CONTROL FABRIC WILL HAVE GOOD SOIL CONTACT.

- 2. APPLY PERMANENT SEEDING BEFORE PLACING EROSION CONTROL FABRIC.
- LAY FABRIC LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- 4. STAPLE FABRIC WITH 6" STAPLES. STAPLE FABRIC EVERY 12" ON SIDES, TOP AND BOTTOM. 18" O.C. IN THE MIDDLE OF THE FABRIC. (PER MANUFACTURES SPECIFICATIONS)
- 5. THE EROSION CONTROL FABRIC TO BE INSTALLED IN SECTIONS RUNNING FROM THE TOP TO THE BOTTOM OF THE SLOPE, ALONG THE ENTIRE AREAS AS SHOWN ON THE PLAN (PER MANUFACTURES SPECIFICATIONS)
- 6. EROSION CONTROL FABRIC SHALL USE BIODEGRADABLE (NON-PLASTIC) NETTING
- 7. TO BE USED ONLY IN AREAS OF TEMPORARY SOIL DISTURBANCE ON SLOPES ADJACENT TO THE POND.
- 8. FLAT SURFACES SHALL RECEIVE STRAW MULCH APPLIED TO THE GROUND SURFACE AT A RATE OF 2,500 LBS./ACRE.



COIR FASCINE INSTALLATION FOR BERM (TYP.) Scale: NTS



EMERGENT SHELF PLANTING ZONES (TYP.) Scale: NTS

# ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON



Kyle Zick Landscape Architecture, Inc. 36 Bromfield Street Suite 202 617 451-1018 Tel Boston, MA 02108 www.kylezick.com

(P) 413.256.0202 WWW.SWCA.COM

SWCA ENVIRONMENTAL CONSULTANTS

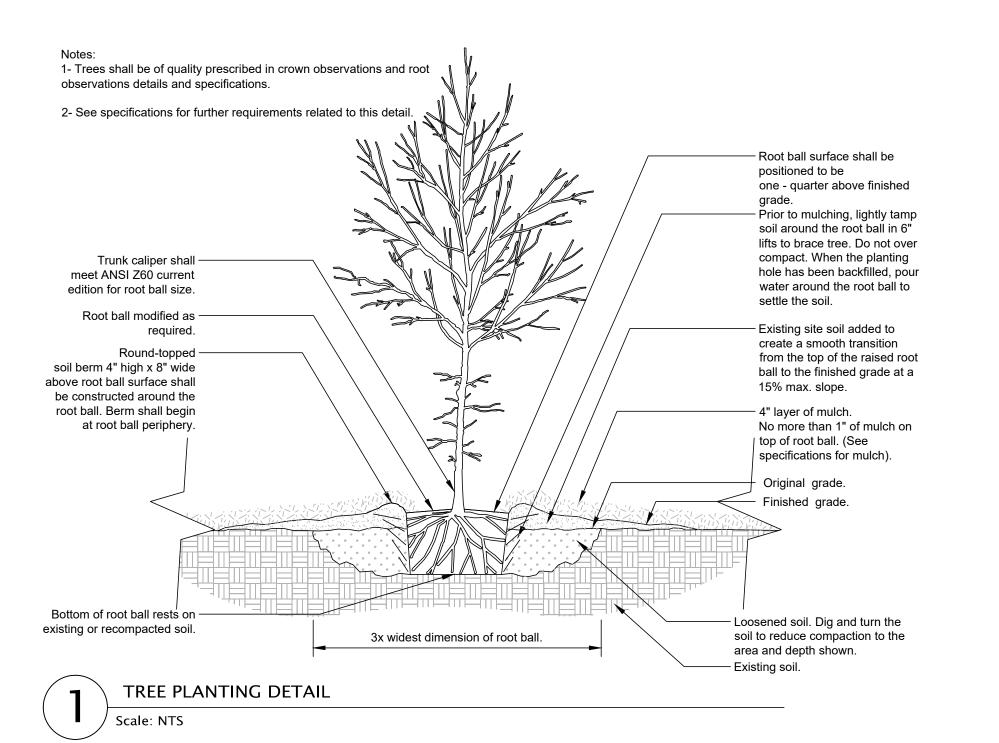
15 RESEARCH DRIVE AMHERST, MA 01002

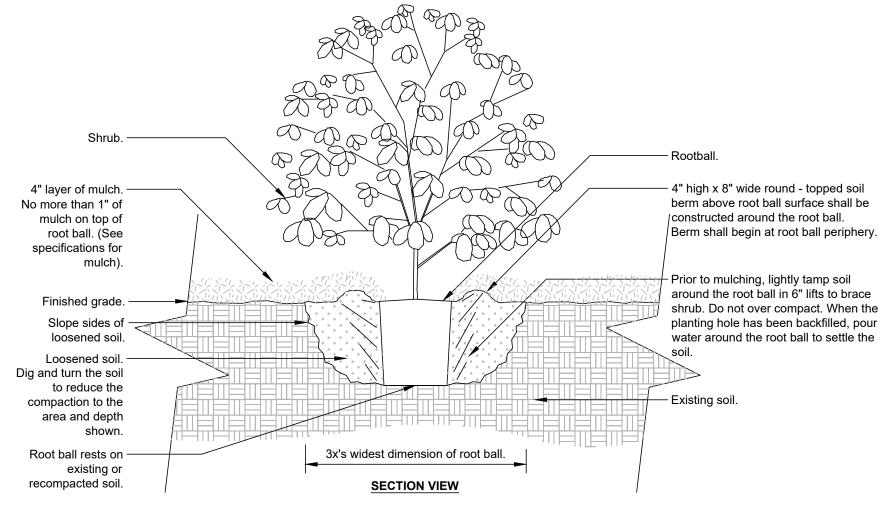
DESIGN DEVELOPMENT SET

Job Number: Project: ARLINGTON RES. Checked By: MM Drawn By: TS Date: FEBRUARY 4, 2021

Drawing Title:

BANK RESTORATION DETAILS

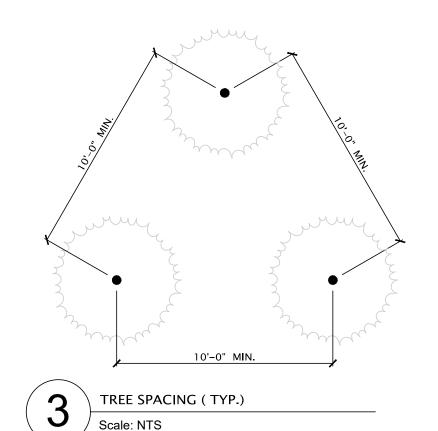


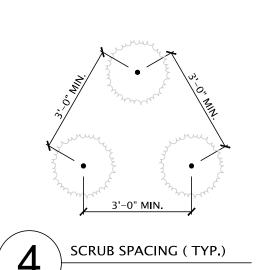


1- Shrubs shall be of quality prescribed in the root observations detail and specifications.

2- See specifications for further requirements related to this detail.

SHRUB PLANTING DETAIL SHRUB I





#### New England Semi-Shade Grass and Forbs Mix

Botanical Name	Common Name	Indicator
Elymus virginicus	Virginia Wild Rye	FACW-
Elymus canadensis	Canada Wild Rye	FACU+
Festuca rubra	Red Fescue	FACU
Chamaecrista fasciculata	Partridge Pea	FACU
Liatris spicata	Spiked Gayfeather/Marsh Blazing Star	FAC+
Onoclea sensibilis	Sensitive Fern	FACW
Aster prenanthoides (Symphyotrichum prenanthoide)	Zigzag Aster	FAC
Eupatorium fistulosum (Eutrochium fistulosum)	Hollow-Stem Joe Pye Weed	FACW
Eupatorium perfoliatum	Boneset	FACW
Juncus tenuis	Path Rush	FAC

Apply: 30 lbs/acre

NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX Scale: NTS Source: Seed mixes referenced herein are provided by New England Wetland Plants, Inc.

PHASE 2 PLANT	RESTORAT	ION SCHEDULI

Cover Type	Abbrev.	Scientific Name	Common Name	Plant Size @ Installation	Type 'A' Area '1'	Type 'A' Area '2'	Type 'A' Area '3'	Type 'A' Area '4'
	•	•	Total Enhancement Area (If)		305	270	145	125
			Total Enhancement Area Approx. (sf)		4,575	4,050	2,175	1,875
Trees					•			
	Ar	Acer rubrum	Red Maple	4'-6' ht. min.				
	Ва	Betula alleghaniensis	Yellow Birch	4'-6' ht. min.				
	Вр	Betula populifolia	Grey Birch	4'-6' ht. min.				
	Ns	Nyssa sylvatica	Black Gum	4'-6' ht. min.				
	Pd	Populus deltoides	Cottonwood	4'-6' ht. min.				
	Qr	Quercus rubra	Red Oak	4'-6' ht. min.				
	Sd	Salix discolor	Pussywillow	4'-6' ht. min.				
	Sn	Salix nigra	Black Willow	4'-6' ht. min.				
Shrubs	•		•					
	Ca	Clethra alnifolia	Sweet Pepperbush	3'-4' ht. min.	118	104	56	48
	Cs	Cornus sericea	Red Osier Dogwood	3'-4' ht. min.	118	104	56	48
	lv	llex verticillata	Winterberry	3'-4' ht. min.	118	104	56	48
	Vd	Viburnum dentatum	Northern Arrowwood	3'-4' ht. min.	118	104	56	48
Herbacious	•		•		•			
- Shoreline/Fringe	Ср	Caltha palustris	Marsh Marigold	2" plug	80	75	40	35
	Ep	Eupatorium perfoliatum	Boneset Aster	2" plug	80	75	40	35
	Mr	Mimulus ringens	Monkey Flower	2" plug	80	75	40	35 35
- Water Depth 0"-6"	Am	Acorus americana	Sweetflag	2" plug	80	75	40	35
	Lc	Lobelia cardinalis	Cardinal Flower	2" plug	80	75	40	
	lv	Iris versicolor	Blue Flag Iris	2" plug	80	75	40	35
- Water Depth 6"-8"	Рс	Pontederia cordata	Pickerelweed	2" plug	100	88	50	45
	Sa	Schoenoplectus acutus	Hard-stem Bulrush	2" plug	100	88	50	45
	Sc	Scirpus cyperinus	Woolgrass	2" plug	100	88	50	45
	SI	Sagittaria latifolia	Duck Potato	2" plug	100	88	50	45
	Sm	Sparganium americanum	Burreed	2" plug	100	88	50	
- Water Depth > 3'	No	Nymphaea odorata	White Water Lily	tuber	120	110	60	55
Seed Mix	New Eng	land Erosion Control/Restoration M	ix For Detention Basins and Moist Sites (Lbs)	18lbs/acre	2.0	2.0	1.0	1

Tree quantities specified are based off the USDA New England Forest: Baseline for New England Forest Health Monitoring report.

Trees shall be installed not less than 10 feet on center and no farther than 12 feet on center.

Shrubs shall be planted in clusters of 2 or 3, and shall be installed not less than 3 feet on center.

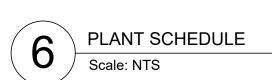
Areas within planting areas not 100% vegetated with existing herbaceous plants will be seeded with the appropriate seed mix at the manufacturers specified rate to cover the bare area.

A wetland scientist or landscape architect shall provide supervision of the plant layout.

Plant substitutions may be necessary due to commercial availability. Substitutions shall be approved by the supervising wetland scientist or landscape architect.

Invasive species control semi-annually for the first two-years. Area A woody material assumes 50% slope coverage of upland areas based on the USDA New England Forest prescribed rate of 240 trees per acre and 75% shrub cover at the prescribed

Fringe and aquadic vegetation assumes an average of 3 square feet of planting area per linear foot at 12-inch on center spacing for each community



# ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

### TOWN OF ARLINGTON



NO.	REVISION	DATE

SWCA ENVIRONMENTAL CONSULTANTS 15 RESEARCH DRIVE AMHERST, MA 01002 (P) 413.256.0202 WWW.SWCA.COM

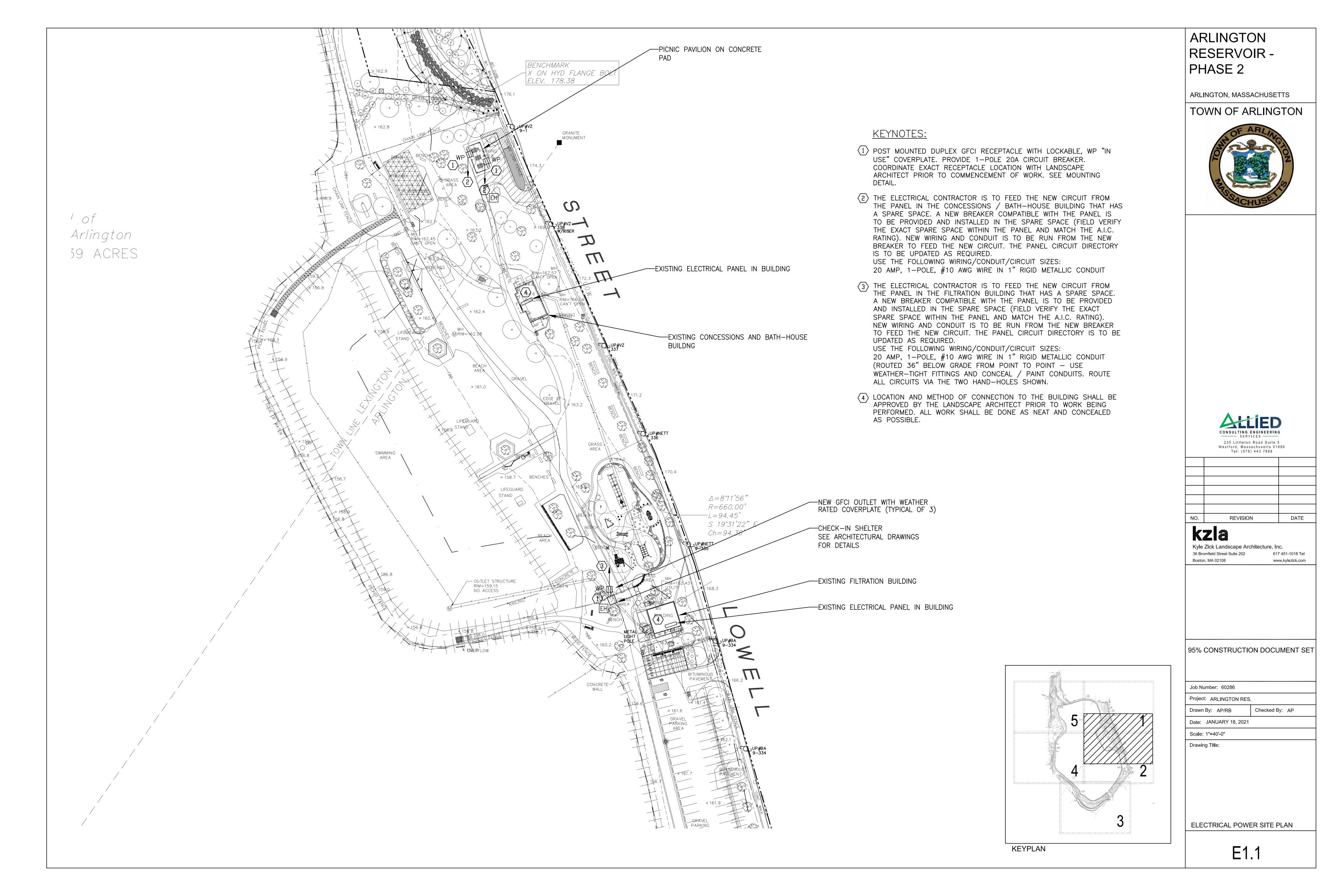
Kyle Zick Landscape Architecture, Inc. 36 Bromfield Street Suite 202 617 451-1018 Tel Boston, MA 02108 www.kylezick.com

DESIGN DEVELOPMENT SET

Job Number: Project: ARLINGTON RES. Checked By: MM Drawn By: TS Date: FEBRUARY 4, 2021

Drawing Title:

BANK RESTORATION **DETAILS AND NOTES** 



### GENERAL NOTES

- 1. ALL WIRING AND RACEWAY SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- 2. THE SIZES OF ELECTRICAL RACEWAY SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. ARCHITECTURAL DRAWINGS INDICATE REQUIRED LOCATION OF WIRING DEVICES.
- 4. MINIMUM WIRE SHALL BE #12 FOR BRANCH CIRCUIT RUNS UP TO 100' TO THE LAST OUTLET; OVER 100'-#10; OVER 150'-#8 AND INCREASE CONDUIT SIZE AS REQUIRED BY LOCAL ELECTRICAL CODE.
- 5. ALL WIRING INSTALLATION SHALL BE COLOR CODED AS PER CODE. CONDUCTORS SIZED #10 AND LOWER SHALL BE SOLID; #8 AND HIGHER STRANDED.
- 6. ALL WIRING DEVICES, PANEL BOARDS, ENCLOSURES, ETC., SHALL BE GROUNDED AS PER LOCAL ELECTRIC CODE.
- 7. ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL CODES, STATE AND LOCAL AUTHORITIES. FILE ALL PLANS, OBTAIN ALL PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND OBTAIN ALL APPROVALS REQUIRED. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL APPROVED AND LISTED.
- 8. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, SPECIFICATIONS, & LAWS & ORDINANCES, THE MOST STRINGENT SHALL APPLY.
- 9. SUBMIT FOR APPROVAL, COMPLETE SHOP DRAWINGS, LIST OF MATERIALS AND DETAILED DATA OF EQUIPMENT GIVING THE MANUFACTURERS NAME, CATALOG NUMBER, SIZE, CAPACITY AND DIMENSIONS. NO EQUIPMENT SHALL BE INSTALLED OR FABRICATED WITHOUT OBTAINING APPROVAL.
- 10. CIRCUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. CONDUITS AND CABLES SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- 11. THE QUANTITY AND SIZE OF WIRES AND CONDUIT SHOWN ON DRAWINGS AND WIRING DIAGRAMS REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS.
- 12. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 6'-7".
- 13. CONDUIT FOR WIRING CONCEALED IN FLOOR SLABS, OR BELOW GRADE SHALL BE 1" MINIMUM PVC.
- 14. CONFIRM EXACT POWER REQUIREMENTS AND CONNECTION LOCATIONS FOR ALL EQUIPMENT PRIOR TO INSTALLATION WITH PLUMBING, HVAC AND GENERAL CONTRACTOR.
- 15. WORK SHALL COORDINATE WITH THAT OF OTHER TRADES TO MINIMIZE CONFLICTS AND ELIMINATE INTERFERENCES.
- 16. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND THE CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK CLEAN AND ORDERLY.
- 17. ALL 20A; GFCI RECEPTACLES INSTALLED OUTDOORS IN WET OR DAMP LOCATIONS SHALL BE LISTED WEATHER—RESISTANT.
- 18. PROVIDE RAIN—TIGHT WHILE IN USE COVERS ON ALL OUTDOOR GFCI RECEPTACLES.
- 19. ALL EXTERIOR BOXES ARE TO BE NEMA—3R OR 4X. ALL EQUIPMENT/WORK IS TO BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

	POWER LEGEND	
SYMBOLS	DESCRIPTION	
$\Rightarrow$	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED.	
₩P	DUPLEX GFCI RECEPTACLE WITH WEATHER PROOF COVER/BOX	
	SURFACE PANEL — SEE RESPECTIVE SCHEDULE.	
•	HOMERUN TO PANEL	
<u></u>	CONNECTION TO GROUND	
EH	ELECTRICAL HANDHOLE — LINE VOLTAGE ONLY. 12" X 12" X 12"	

#### GENERAL NOTES:

- 1. CONDUIT ROUTING IS SHOWN DIAGRAMMATIC. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS SUCH AS TREE ROOT BALLS, FOOTINGS, FOUNDATIONS ETC. THE ELECTRICAL CONTRACTOR IS TO COORDINATE THE LOCATION OF ALL UNDERGROUND UTILITIES WITH THE CIVIL PLANS AND IN THE FIELD. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OF EXISTING WORK DURING TRENCHING/EXCAVATION PERFORMED FOR THE WORK SHOWN ON THIS PLAN.
- 2. A MINIMUM DISTANCE OF 12" SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUITS.
- 3. SPLICES IN HANDHOLES SHALL BE LISTED AS SUITABLE FOR WET LOCATIONS.
- 4. REFER TO CIVIL/LANDSCAPE PLANS FOR EXACT LOCATIONS
- 5. ALL BOXES AND CONNECTIONS SHALL BE WEATHER-TIGHT AVOID LOCATING HANDHOLES OVER PARKING SPACES LOCATE HANDHOLES IN-BETWEEN.
- 6. INCLUDE ALL DETAIL COSTS, TRENCHING, REPAVING AND OTHER ASSOCIATED COSTS IN THE BID PRICE.
- 7. CONDUITS TO BE RUN 36" BELOW GRADE MINIMUM.

#### ELECTRICAL EXISTING WORK GENERAL NOTES:

- 1. ALL PENETRATIONS (NEW AND EXISTING) OF THE WALLS SHALL BE PROPERLY FILLED AND FINISHED.
- 2. SAFE DISCONNECTION OF ELECTRICAL UTILITIES IS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR.
- 3. EXACT EXISTING PANEL LOCATIONS ARE TO BE FIELD VERIFIED PRIOR TO BID.
- 4. THE ELECTRICAL CONTRACTOR IS TO VERIFY THE BREAKER SIZES, WIRE SIZES, PANEL SIZES, AND PANEL LOADS IN THE FIELD. ALL PANELS ARE TO BE COMPLETELY LABELED AND UPDATED DIRECTORIES INSTALLED. ALL PANELS ARE TO BE PROPERLY GROUNDED PER THE NATIONAL ELECTRIC CODE.
- 5. IT IS INTENDED THAT ALL NEW CONDUIT, WIRE, ETC. ARE TO BE INSTALLED TO THE NEW EQUIPMENT.
- 6. THE PHASING OF ALL WORK IS TO BE COORDINATED WITH OTHER CONTRACTORS (GENERAL, ETC.) PRIOR TO PROJECT COMMENCEMENT.

### BRANCH CIRCUIT WIRING

- 1. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER TYPE AS LISTED IN THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 2. FOR CLARITY, ALL BRANCH CIRCUIT WIRING IS NOT SHOWN, HOWEVER A COMPLETE BRANCH CIRCUIT WIRING SYSTEM IS TO BE INSTALLED IN ACCORD WITH THE DEVICES AND CIRCUIT NUMBERS SHOWN.
- 3. WIRING SHOWN ON DRAWINGS IS FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS
- 4. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NO SHARED NEUTRALS WILL BE ALLOWED. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS..

5. <u>TYPICAL CIRCUITING</u>

"P1A,33" DENOTES FIXTURE TYPE,
"P1A,33" DENOTES PANEL & CIRCUIT NUMBER,
"b" DENOTES SWITCH CONTROL
ALTERNATIVELY CIRCUITING MAY BE LOOPED

### **ABBREVIATIONS**

AIC	AMPERES INTERRUPTING CAPACITY
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER (GFCI)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
WP	WEATHER PROOF

### ARLINGTON RESERVOIR -PHASE 2

ARLINGTON, MASSACHUSETTS

TOWN OF ARLINGTON





Tel: (978) 443 7888		
NO.	REVISION	DATE

# kzla

Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202 617 451-1018 Tel
Boston, MA 02108 www.kylezick.com

95% CONSTRUCTION DOCUMENT SET

Job Number: 60286

Project: ARLINGTON RES.

Drawn By: AP/RB Checked By: AP

Date: JANUARY 18, 2021

Scale: 1"=40'-0"

Drawing Title:

ELECTRICAL LEGEND & NOTES

E0.0

